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(54) Title: **TISSUE SPECIFIC GENES OF DIAGNOSTIC IMPORT**

(57) Abstract: The present invention relates to a composition comprising a plurality of polynucleotides which are cell and/or tissue specific and which may be used in their entirety or in part as references in producing an expression profile that defines a metabolic or developmental process, treatment, condition, disease, or disorder.

WO 01/32927 A2

## TISSUE SPECIFIC GENES OF DIAGNOSTIC IMPORT

### TECHNICAL FIELD

The present invention relates to a composition comprising a plurality of polynucleotides which  
5 are cell and/or tissue specific. These polynucleotides may be used to define and direct a metabolic or developmental process, to identify or to monitor the progression of a condition, disease, or disorder, or to evaluate and monitor the efficacy of a treatment protocol.

### BACKGROUND ART

Array technology can provide a simple way to explore the expression of a single polymorphic  
10 gene or the expression profile of a large number of related or unrelated genes. When the expression of a single gene is examined, arrays are employed to detect the expression of a specific gene or its variants. When an expression profile is examined, arrays provide a platform for examining which genes are tissue specific, direct the differentiation of a cell type or tissue, carry out housekeeping functions, function as parts of a signaling cascade, or characterize a particular genetic predisposition,  
15 condition, disease, or disorder.

The application of gene expression profiling is particularly relevant to improving diagnosis and prognosis of disease. However, in order to determine whether expression of a particular gene in a particular disease is significant, it is useful to provide a reference set of tissue and cell specific genes against which genes expressed during the disease process may be compared. For example, both the  
20 levels and sequences expressed in brain tumors may be compared with the levels and sequences expressed in normal brain tissue. These comparisons may be made on a single array by incorporating a particular tissue or cell specific reference set alongside novel sequences or on multiple arrays, each of which contains at least some subset of the known reference set.

The present invention satisfies a need in the art in that it provides such a reference set. The  
25 reference set may be used in its entirety or in part to produce an expression profile that may be used to define and direct a metabolic or developmental process, to identify or to monitor the progression of a condition, disease, or disorder, or to evaluate and monitor the efficacy of a treatment protocol.

### SUMMARY

The present invention provides a plurality of tissue or cell specific polynucleotides which may  
30 be used on an array to produce an expression profile. This profile may define expression of the polynucleotides in normal tissue, during a particular metabolic or developmental process or during the onset, progression, or treatment of a human condition, disease, or disorder. In one embodiment, these polynucleotides are selected from SEQ ID NOs:1-416.

The invention also provides a plurality of polynucleotides which display tissue or cell specific



expression and are selected from: a) SEQ ID NOs:209-218 and 1-10, cell specific polynucleotides of heart and fragments thereof; b) SEQ ID NOs:219-249 and 11-41, cell specific polynucleotides of skeletal muscle and fragments thereof; c) SEQ ID NOs:250-251 and 42-43, cell specific polynucleotides of uterus and fragments thereof; d) SEQ ID NOs:252-256 and 44-48, cell specific polynucleotides of ovary and fragments thereof; e) SEQ ID NOs:257-263 and 49-55, cell specific polynucleotides of stomach and fragments thereof; f) SEQ ID NOs:264-283 and 56-75, cell specific polynucleotides of intestine and fragments thereof; g) SEQ ID NOs:284-293 and 76-85, cell specific polynucleotides of lung and fragments thereof; h) SEQ ID NOs:294-345 and 86-137, cell specific polynucleotides of liver and fragments thereof; i) SEQ ID NOs:346-356 and 138-148, cell specific polynucleotides of kidney and fragments thereof; j) SEQ ID NOs:357-374 and 149-166, cell specific polynucleotides of pancreas and fragments thereof; and k) SEQ ID NOs:375-416 and 167-208, cell specific polynucleotides of brain and fragments thereof. In one aspect, the plurality of polynucleotides are immobilized on a substrate.

In another embodiment, the expression of a plurality of polynucleotides is used to detect expression in a tissue. In one aspect, the tissue is embryonic stem cells which are differentiating into brain, heart, kidney, liver, lung, muscle or pancreatic tissues. In a second aspect, the tissue is a biopsy from diseased brain, heart, kidney, liver, lung, muscle, ovarian, pancreatic, small intestine, stomach, or uterine tissues which is being diagnosed for a cancer or immune or inflammatory disease or subjected to forensic analysis. In a third aspect, the point of origin of a metastatic cancer is determined.

In another embodiment, the polynucleotides are used in high throughput methods of screening molecules or compounds to identify a ligand, the method comprising combining a polynucleotide with molecules or compounds under conditions to allow specific binding and detecting specific binding, thereby identifying a ligand which specifically binds to the polynucleotide. The molecules or compounds to be screened are selected from DNA molecules, RNA molecules, PNAs, mimetics, peptides, and proteins.

In another embodiment, the invention provides a substantially purified polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof, SEQ ID NO:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204. In one aspect, the polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof, SEQ ID NO:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204 is used in an expression vector transformed into a host cell to produce a protein or a portion thereof by culturing the host cell under conditions for the expression of protein and recovering the protein from the host cell culture.

In a third embodiment, the invention provides a protein or a portion thereof. In one aspect, the protein is used in a high throughput method to screen large numbers of molecules or compounds to

identify at least one ligand which specifically binds the protein, the method comprising combining the protein with the molecules or compounds under conditions to allow specific binding and detecting specific binding, thereby identifying a ligand which specifically binds the protein. In a second aspect, the protein is used to purify a ligand, the method comprising combining the protein with a sample under  
5 conditions to allow specific binding, recovering the bound protein, and separating the protein from the ligand, thereby obtaining purified ligand. The molecules or compounds screened or purified may be selected from DNA molecules, RNA molecules, PNAs, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments, immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents. Any of these molecules or compounds may have diagnostic or therapeutic  
10 applications.

### DESCRIPTION OF THE SEQUENCE LISTING AND TABLES

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15 file or records, but otherwise reserves all copyright rights whatsoever.

The Sequence Listing is a compilation of polynucleotides obtained by sequencing and extension of clone inserts of different cDNAs. Each sequence is identified by a sequence identification number (SEQ ID NO or SEQ ID) and by the clone number (Incyte ID) from which it was obtained.

Table 1 lists the fragments and extended polynucleotides by their SEQ ID NO and cDNA  
20 respectively, tissue, and by the description associated with at least a fragment of a homologous polynucleotide in GenBank. The descriptions were obtained using the sequences of the Sequence Listing and BLAST analysis.

Table 2 lists the source of the RNAs used to produce target polynucleotides for hybridization to the UNIGEM V microarray (Incyte Genomics, Palo Alto CA). The columns present the Source No,  
25 Tissue, Age, Ethnicity/Sex, Cause of Death, and Conditions or Diseases, as known for each donor.

Table 3 shows the data for each of the clones across each of the tissues used in the experiments. The columns present Clone ID and the tissues (with source number)--heart, skeletal muscle, uterus, stomach, small intestine, lung, liver, kidney, pancreas, spleen and brain. This data was produced using GEMTOOLS software (Incyte Genomics).

30 Table 4 presents the analysis of variance (ANOVA) for the data. The columns present Clone ID, Var. Betw (variance between), Var. Within (variance within), F (value), and Probability. These values were produced using batch ANOVA (Sokal and Rohlf (1969) Biometry; the Principles and Practice of Statistics in Biological Research, WH Freeman, San Francisco CA) and EXCEL98 software (Microsoft, Seattle WA).

35 Table 5 shows the cell and tissue specificity of the polynucleotides across tissues (heart,

skeletal muscle, uterus, stomach, small intestine, lung, liver, kidney, pancreas, spleen and brain). The cell and tissue specific groupings were produced using mean values [mean (tissue)- mean (entire set)] and grouped using EXCEL98 software (Microsoft).

## DESCRIPTION OF THE INVENTION

### 5 Definitions

The term "array" refers to an ordered arrangement of hybridizable polynucleotides. These are arranged so that there are a "plurality" of polynucleotides, preferably at least one polynucleotide, preferably at least 100 polynucleotides, and more preferably at least 1,000 polynucleotides, and even more preferably at least 10,000 polynucleotides on a 1 cm<sup>2</sup> substrate. The maximum number of  
10 polynucleotides is unlimited, but is at least 100,000. Furthermore, the signal from each of the hybridized polynucleotides is individually distinguishable.

A "polynucleotide" refers to a chain of nucleotides. Preferably, the chain has from about 15 to 10,000 nucleotides and more preferably from about 400 to 6,000 nucleotides. The term "probe" refers to a probe polynucleotide capable of hybridizing with a target polynucleotide to form a hybridization  
15 complex. In most instances, the sequences of the probe and target polynucleotides will be complementary (no mismatches) when aligned. In some instances, there may be up to a 10% mismatch.

"Fragment" refers to any part of an Incyte clone or polynucleotide which retains a useful characteristic. Useful fragments may be used in hybridization technologies, to identify or purify ligands, or as a therapeutic to regulate replication, transcription or translation.

20 "Ligand" refers to any agent, molecule, or compound which will bind specifically to a complementary site on a polynucleotide or protein. Such ligands stabilize or modulate the activity of polynucleotides or proteins and may be composed of at least one of the following: inorganic and organic substances including nucleic acids, proteins, carbohydrates, fats, and lipids.

"Purified" refers to any molecule or compound that is removed, isolated, or separated from its  
25 natural environment and is at least about 60% free, and more preferably about 90% free, from other components with which it is naturally associated.

"Specific binding" refers to a special and precise interaction between two molecules which is dependent upon a particular structure such as molecular side groups. For example, the hydrogen bonding between two single stranded nucleic acids or the binding between an epitope or a protein and  
30 an agonist, antagonist, or antibody.

"Sample" is used in its broadest sense. A sample containing polynucleotides may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane isolated from a cell; genomic DNA, RNA, or cDNA in solution or bound to a substrate; a cell; a tissue; a tissue print; a finger print, a hair, and the like.

35 "Portion" refers to any part of a protein used for any purpose, but especially for the screening

of molecules or compounds identify those which specifically bind to that portion and for producing antibodies.

The phrase "polynucleotide encoding a protein" refers to nucleic acid sequence that closely aligns with a sequence which encodes a conserved protein motif or domain that were identified by employing analyses well known in the art. These analyses include Hidden Markov Models (HMMs) such as PFAM (Krogh (1994) J Mol Biol 235:1501-1531; Sonnhammer et al. (1988) Nucl Acids Res 26:320-322), BLAST (Basic Local Alignment Search Tool; Altschul (1993) J Mol Evol 36: 290-300; and Altschul et al. (1990) J Mol Biol 215:403-410), or other analytical tools such as BLIMPS (Henikoff et al. (1998) Nucl Acids Res 26:309-12). Additionally, "polynucleotide encoding a protein" may refer to a polynucleotide that is expressed in or associated with specific human metabolic processes, conditions, disorders, or diseases.

"Cell specific", as defined herein, refers to those polynucleotides which occur at a statistically significant level in more than one tissue. The commonality between the tissues may be ascribed to the types of cells that are an integral part of or would be expected to be found in a particular tissue, e.g., blood cells, nerve cells, endothelial cells, and the like.

#### The Invention

The present invention provides a plurality of tissue or cell specific polynucleotides which may be used on an array to produce an expression profile. This profile may define expression of these polynucleotides in normal tissue, during a particular metabolic or developmental process or during the onset, progression, or treatment of a human condition, disease, or disorder. These polynucleotides represent known and novel genes normally expressed in the cells or tissues of the brain, heart, intestine, kidney, liver, lung, smooth muscle, ovary, pancreas, spleen, stomach, or uterus. The expression of these polynucleotides may be compared to the expression of other known or novel genes found on an array. The plurality of polynucleotides, the entire reference set, comprises SEQ ID NOs:1-416. Tissue or cell-specific reference sets may be selected from SEQ ID NOs:209-218 and 1-10, cell specific polynucleotides of heart and fragments thereof; b) SEQ ID NOs:219-249 and 11-41, cell specific polynucleotides of skeletal muscle and fragments thereof; c) SEQ ID NOs:250-251 and 42-43, cell specific polynucleotides of uterus and fragments thereof; d) SEQ ID NOs:252-256 and 44-48, cell specific polynucleotides of ovary and fragments thereof; e) SEQ ID NOs:257-263 and 49-55, cell specific polynucleotides of stomach and fragments thereof; f) SEQ ID NOs:264-283 and 56-75, cell specific polynucleotides of intestine and fragments thereof; g) SEQ ID NOs:284-293 and 76-85, cell specific polynucleotides of lung and fragments thereof; h) SEQ ID NOs:294-345 and 86-137, cell specific polynucleotides of liver and fragments thereof; i) SEQ ID NOs:346-356 and 138-148, cell specific polynucleotides of kidney and fragments thereof; j) SEQ ID NOs:357-374 and 149-166, cell specific polynucleotides of pancreas and fragments thereof; and k) SEQ ID NOs:375-416 and 167-208,

cell specific polynucleotides brain and fragments thereof. The plurality of polynucleotides is arrayed on a substrate, preferably a microarray or used as probes.

The invention also provides a substantially purified polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof, SEQ ID NO:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204. These polynucleotides may be used in an expression vector transformed into a host cell to produce a protein or a portion thereof by culturing the host cell under conditions for the expression of protein and recovering the protein from the host cell culture.

The microarray can be used for large scale genetic or gene expression analysis of a large number of novel target polynucleotides. These targets are prepared by methods well known in the art and are from mammalian cells or tissues which are in a certain stage of development or differentiation; have been treated with a known molecule or compound, such as a cytokine, growth factor, a drug, and the like; or have been extracted or biopsied from a mammal with a known or unknown condition, disorder, or disease before or after treatment. Specifically, the plurality of polynucleotides are useful to determine the differentiation of embryonic stem cells toward brain, heart, kidney, liver, lung, muscle or pancreatic tissues or to determine whether a cancer is metastatic or its source by analyzing biopsied tissue from diseased brain, heart, kidney, liver, lung, muscle, ovarian, pancreatic, small intestine, stomach, or uterine tissues. The plurality of polynucleotides may be used during the diagnosis of a cancer, an immunopathology, a neuropathology, and the like.

The target polynucleotides are hybridized to the probe polynucleotides for the purpose of defining a novel gene profile associated with that developmental stage, treatment, condition, disorder or disease. Subsequently, the gene profile can be used for diagnosis, prognosis, or monitoring of treatments where altered expression of known and novel genes is associated with a cancer, an immunopathology, a neuropathology, and the like. In some cases, a gene profile can be used to investigate an individual's predisposition to a condition, disorder or disease such as a cancer, an immunopathology, a neuropathology, and the like.

When the polynucleotides of the invention are employed as hybridizable polynucleotides on a microarray, the polynucleotides are organized in an ordered fashion so that each polynucleotide is present at a specified location on the substrate. Because the probe polynucleotides are at specified locations on the substrate, their hybridization patterns and intensities can be compared with the hybridization patterns and intensities of other known and novel polynucleotides to create an expression profile. Such a profile, interpreted in terms of expression levels of the cell and tissue specific, known, and novel genes can be correlated with a particular metabolic process, developmental stage, treatment, condition, disorder, disease, or stage of disease.

The plurality of polynucleotides can also be used to identify or purify a molecule or compound

which specifically binds to at least one of the polynucleotides. These molecules may be identified from a sample or in high throughput mode from a large number of molecules and compounds including mRNAs, cDNAs, genomic fragments, and the like. Typically, the molecules or compounds will be of particular diagnostic or therapeutic interest.

5 If nucleic acid molecules in a sample enhance the hybridization background, it may be advantageous to remove the offending molecules. One method for removing such molecules is by hybridizing the sample with immobilized probe polynucleotides and washing away those molecules that do not form hybridization complexes. At a later point, hybridization complexes can be dissociated, thereby releasing those molecules which specifically bind the probe polynucleotides.

#### 10 Method for Selecting Polynucleotide Probes

There are numerous different ways to select polynucleotides. Some of the more common ones include selecting probes from genes which are well known in the literature to have an association with a particular condition, disorder, or disease, which have a common functional characteristic such as the presence of a particular motif or domain or a signal peptide, which are  
15 expressed in a particular cell type or tissue such as blood or bone marrow, and the like.

Preferably, the probes are non-redundant; therefore, no more than one probe represents a particular gene. Control sequences, however, may be selected specifically for their redundancy.

Polynucleotides of the composition may be manipulated to optimize their performance in hybridization technologies. Polynucleotide selection may be optimized by examining the sequences  
20 using a computer algorithm to identify fragments lacking potential secondary structure. Computer algorithms such as those employed in Vector NTI software (Informax, N. Bethesda MD) or LASERGENE software (DNASTAR, Madison WI) are well known in the art. These programs search nucleic acid sequences to identify stem loop structures and tandem repeats and to analyze G+C content of the sequence. In mammalian arrays, those sequences with a G+C content greater than 60% may be  
25 excluded. Alternatively, polynucleotides can be optimized under experimental conditions to determine whether polynucleotide probes and their complementary targets hybridize optimally.

Where the greatest numbers of non redundant polynucleotides are desired, the polynucleotides may be compared with clustered or assembled sequences to assure that each polynucleotide is derived from a different gene. To obtain a longer or different probe for a particular gene, the polynucleotide  
30 may be physically extended utilizing the partial nucleotide sequences derived from the Incyte clone and employing the XL-PCR kit (Applied Biosystems, Foster City CA) or other means known in the art.

#### Polynucleotide Probes

Polynucleotide probes can be genomic DNA or cDNA or mRNA, or any RNA-like or DNA-like material, such as peptide nucleic acids, branched DNAs and the like. They may be the sense  
35 or antisense strand. Where targets are double stranded, probes may be either sense or antisense

strands. Where targets are double stranded, probes are complementary single strands.

In one embodiment, polynucleotide probes are cDNAs. The size of the cDNAs may vary and is preferably from 15 to 10,000 nucleotides, more preferably from 60 to 4000 nucleotides, and most preferably from 200-600 nucleotides.

5 In another embodiment, probes are plasmids. In this case, the cDNA sequence of interest is the insert sequence. Excluding the vector DNA and regulatory sequences, cDNA size may vary preferably from 15 to 10,000 nucleotides, more preferably from 60 to 4000 nucleotides, and most preferably from 200-600 nucleotides.

Polynucleotide probes can be prepared by a variety of synthetic or enzymatic methods well known in the art. Probes can be synthesized, in whole or in part, using chemical methods well known in the art (Caruthers et al. (1980) Nucleic Acids Symp Ser (7):215-233). Alternatively, probes can be produced enzymatically or recombinantly, by in vitro or in vivo transcription.

Nucleotide analogues can be incorporated into the probes by methods well known in the art. The only requirement is that the incorporated nucleotide analogues of the probe must base pair with target nucleotides. For example, certain guanine nucleotides can be substituted with hypoxanthine which base pairs with cytosine residues. However, these base pairs are less stable than those between guanine and cytosine. Alternatively, adenine nucleotides can be substituted with 2,6-diaminopurine which can form stronger base pairs than those between adenine and thymidine.

15 Additionally, probes can include nucleotides that have been derivatized chemically or enzymatically. Typical chemical modifications include derivatization with acyl, alkyl, aryl or amino groups.

Probes can be synthesized on a substrate. Synthesis on the surface of a substrate may be accomplished using a chemical coupling procedure and a piezoelectric printing apparatus as described by Baldeschweiler et al. (PCT /WO95/251116). Alternatively, the probe can be synthesized on a substrate surface using a self-addressable electronic device that controls when reagents are added as described by Heller et al. (USPN 5,605,662).

Complementary DNA (cDNA) can be arranged and then immobilized on a substrate. Probes can be immobilized by covalent means such as by chemical bonding procedures or UV. In one such method, a cDNA is bound to a glass surface which has been modified to contain epoxide or aldehyde groups. In another case, a cDNA probe is placed on a polylysine coated surface and then UV cross-linked as described by Shalon et al. (PCT/WO95/35505; incorporated herein by reference). In yet another method, a DNA is actively transported from a solution to a given position on a substrate by electrical means (Heller et al. supra). Alternatively, probes, clones, plasmids or cells can be arranged on a filter. In the latter case, cells are lysed, proteins and cellular components degraded, and the DNA is coupled to the filter by UV cross-linking.

Furthermore, probe not have to be directly bound to the substrate but rather can be bound to the substrate through a linker group. The linker groups are typically about 6 to 50 atoms long to provide exposure of the attached probe. Preferred linker groups include ethylene glycol oligomers, diamines, diacids and the like. Reactive groups on the substrate surface react with a terminal group of the linker to bind the linker to the substrate. The other terminus of the linker is then bound to the probe.

Probes can be attached to a substrate by sequentially dispensing reagents for probe synthesis on the substrate surface or by dispensing preformed DNA fragments to the substrate surface. Typical dispensers include a micropipette delivering solution to the substrate with a robotic system to control the position of the micropipette with respect to the substrate. There can be a multiplicity of dispensers so that reagents can be delivered to the reaction regions efficiently.

#### Sample Preparation

In order to conduct sample analysis, a sample containing targets is provided. The samples can be any sample containing targets and obtained from any bodily fluid (blood, urine, saliva, phlegm, gastric juices, etc.), cultured cells, biopsies, or other tissue or forensic preparations.

DNA or RNA can be isolated from a sample according to any of a number of methods well known to those of skill in the art. For example, methods of purification of nucleic acids are described in Tijssen (1993) Laboratory Techniques in Biochemistry and Molecular Biology: Hybridization With Nucleic Acid Probes, Part I. Theory and Nucleic Acid Preparation, Elsevier Science, New York NY). In one case, total RNA is isolated using TRIZOL reagent (Life Technologies, Gaithersburg MD), and mRNA is isolated using oligo d(T) column chromatography or glass beads. In one alternative, when targets are derived from an mRNA, targets can be a DNA reverse transcribed from an mRNA, an RNA transcribed from that DNA, a DNA amplified from that DNA, an RNA transcribed from the amplified DNA, and the like. When target is derived from DNA, target can be DNA amplified from DNA, or RNA reverse transcribed from DNA. In yet another alternative, targets are prepared by more than one method.

When targets are amplified it is desirable to amplify the nucleic acids in the sample and to maintain their relative abundances, including low abundance transcripts. Total mRNA can be amplified by reverse transcription using a reverse transcriptase and a primer consisting of oligo d(T) and a sequence encoding the phage T7 promoter to provide a single stranded DNA template. The second DNA strand is polymerized using a DNA polymerase and an RNase which assists in breaking up the DNA/RNA hybrid. After synthesis of the double stranded DNA, T7 RNA polymerase can be added, and RNA transcribed from the second DNA strand template as described by Van Gelder et al. (USPN 5,545,522). RNA can be amplified in vitro, in situ or in vivo (Eberwine, USPN 5,514,545). It is also advantageous to include quantitation controls to assure that amplification and labeling



procedures do not change the abundance of transcripts in a sample. For this purpose, a sample is spiked with a known amount of control nucleic acid, and the probes include control probes which specifically hybridize with the control nucleic acid. After hybridization and processing, the hybridization signals should reflect accurately the amounts of control nucleic acid added to the sample.

5 Prior to hybridization, it may be desirable to fragment the nucleic acids of the sample. Fragmentation improves hybridization by minimizing secondary structure and cross-hybridization among the nucleic acids in the sample or with noncomplementary probes. Fragmentation can be performed by mechanical or chemical means.

The nucleic acids may be labeled with one or more labeling moieties to allow for detection and  
10 quantitation of hybridization complexes. The labeling moieties can include compositions that can be detected by spectroscopic, photochemical, biochemical, bioelectronic, immunochemical, electrical, optical or chemical means. The labeling moieties include radioisotopes, such as  $^{32}\text{P}$ ,  $^{33}\text{P}$  or  $^{35}\text{S}$ ; chemiluminescent compounds, labeled binding proteins, heavy metal atoms, spectroscopic markers such as fluorescent markers and dyes; magnetic labels, linked enzymes, mass spectrometry tags, spin labels,  
15 electron transfer donors and acceptors, and the like.

Exemplary dyes include quinoline dyes, triarylmethane dyes, phthaleins, azo dyes, cyanine dyes, and the like. Preferably, fluorescent markers absorb light above about 300 nm, more preferably above 400 nm, and usually emit light at wavelengths at least greater than 10 nm above the wavelength of the light absorbed. Preferred fluorescent markers include fluorescein, phycoerythrin, rhodamine,  
20 lissamine, and Cy3 and Cy5.

Labeling can be carried out during an amplification reaction, such as polymerase chain and in vitro transcription reactions; by nick translation, or by 5' or 3'-end-labeling reactions. In one case, labeled nucleotides are used in an in vitro transcription reaction. When the label is incorporated after or without an amplification step, the label is incorporated either by using a terminal transferase or a  
25 kinase on the 5' end of the target polynucleotide and then incubating overnight with a labeled oligonucleotide in the presence of T4 RNA ligase.

Alternatively, the labeling moiety can be incorporated after hybridization once a probe/target complex has formed. In one case, biotin is first incorporated during an amplification step as described above. After the hybridization reaction, unbound nucleic acids are rinsed away so that the only biotin  
30 remaining bound to the substrate is that attached to targets that are hybridized to probes. Then, an avidin-conjugated fluorophore, such as avidin-phycoerythrin, that binds with high affinity to biotin is added. In another case, the labeling moiety is incorporated by intercalation into preformed target/probe complexes. In this case, an intercalating dye such as a psoralen-linked dye can be employed.

#### Screening Assays

35 Probes or polynucleotides may be used to screen a library of molecules or compounds for

specific binding affinity. The libraries may be DNA molecules, RNA molecules, PNAs, peptides, proteins such as transcription factors, enhancers, repressors, and other organic or inorganic ligands which regulate activities such as replication, transcription, or translation of polynucleotides in the biological system. The assay involves combining the probe with the library of molecules or compounds under conditions that allow specific binding, and detecting specific binding to a ligand which specifically binds the probe.

Similarly, a protein or a portion thereof transcribed and translated from a probe may be used to screen libraries of molecules or compounds in any of a variety of screening assays. The protein or portion thereof may be free in solution, affixed to an abiotic or biotic substrate, borne on a cell surface, or located intracellularly. Specific binding between the protein and a ligand may be measured. Depending on the kind of library being screened, the assay may be used to identify DNA, RNA, or PNAs, agonists, antagonists, antibodies, immunoglobulins, inhibitors, mimetics, peptides, proteins, drugs, or any other ligand, that specifically binds the protein.

#### Purification of Ligand

Probes may be used to purify a ligand from a sample. A method for using a probe to purify a ligand would involve combining the probe with a sample under conditions to allow specific binding, detecting specific binding, recovering the bound protein, and using an appropriate agent to separate the polynucleotide from the purified ligand.

Similarly, the encoded protein or a portion thereof may be used to purify a ligand from a sample. A method for using a protein or a portion thereof to purify a ligand would involve combining the protein or a portion thereof with a sample under conditions to allow specific binding, detecting specific binding between the protein and ligand, recovering the bound protein, and using an appropriate agent to separate the protein from the purified ligand.

#### Hybridization and Detection

Hybridization causes a denatured polynucleotide probe and a denatured complementary target to form a stable duplex through base pairing. Hybridization methods are well known to those skilled in the art. (See Ausubel, supra, units 2.8-2.11, 3.18-3.19 and 4.6-4.9.) Conditions can be selected for hybridization where completely complementary probe and target can hybridize, i.e., each base pair must interact with its complementary base pair. Alternatively, conditions can be selected where probe and target have mismatches of up to about 10% but are still able to hybridize. Suitable conditions can be selected by varying the concentrations of salt in the prehybridization, hybridization, and wash solutions or by varying the hybridization and wash temperatures. With some substrates, temperature can be decreased by adding formamide to the prehybridization and hybridization solutions.

Hybridization can be performed at low stringency with buffers, such as 5xSSC with 1% sodium dodecyl sulfate (SDS) at 60°C, which permits hybridization between probe and target

sequences that contain some mismatches to form probe/target complexes. Subsequent washes are performed at higher stringency with buffers such as 0.2xSSC with 0.1% SDS at either 45°C (medium stringency) or 68°C (high stringency), to maintain hybridization of only those probe/target complexes that contain completely complementary sequences. Background signals can be reduced by the use of  
5 detergents such as SDS, Sarcosyl, or TRITON X-100 (Sigma-Aldrich, St. Louis MO) or a blocking agent, such as salmon sperm DNA.

Hybridization specificity can be evaluated by comparing the hybridization of control probe to target sequences that are added to a sample in a known amount. The control probe may have one or more sequence mismatches compared with the corresponding target. In this manner, it is possible to  
10 evaluate whether only complementary probes are hybridizing to the targets or whether mismatched hybrid duplexes are forming.

Hybridization reactions can be performed in absolute or differential hybridization formats. In the absolute hybridization format, probes from one sample are hybridized to microarray probes, and signals detected after hybridization complexes form. Signal strength correlates with probe levels in a  
15 sample. In the differential hybridization format, differential expression of a set of genes in two biological samples is analyzed. Probes from the two samples are prepared and labeled with different labeling moieties. A mixture of the two labeled targets is hybridized to the microarray probes, and signals are examined under conditions in which the emissions from the two different labels are individually detectable. Targets in the microarray that are hybridized to substantially equal numbers of  
20 probes derived from both biological samples give a distinct combined fluorescence (Shalon, PCT/WO95/35505). In a preferred embodiment, the labels are fluorescent labels with distinguishable emission spectra, such as a lissamine conjugated nucleotide analog and a fluorescein conjugated nucleotide analog. In another embodiment Cy3 and Cy5 fluorophores (Amersham Pharmacia Biotech, Piscataway NJ) are employed.

25 After hybridization, the microarray is washed to remove nonhybridized polynucleotides, and complex formation between the hybridizable array probes and the targets is examined. Methods for detecting complex formation are well known to those skilled in the art. In a preferred embodiment, the probes are labeled with a fluorescent label, and measurement of levels and patterns of fluorescence indicative of complex formation is accomplished by fluorescence microscopy, preferably confocal  
30 fluorescence microscopy. An argon ion laser excites the fluorescent label, emissions are directed to a photomultiplier, and the amount of emitted light is detected and quantitated. The detected signal should be proportional to the amount of probe/target complexes at each position of the microarray. The fluorescence microscope can be associated with a computer-driven scanner device to generate a quantitative two-dimensional image of hybridization intensity. The scanned image is examined to  
35 determine the abundance/expression level of hybridized probe.

Typically, microarray fluorescence intensities can be normalized to take into account variations in hybridization intensities when more than one microarray is used under similar test conditions. In a preferred embodiment, individual polynucleotide probe/target complex hybridization intensities are normalized using the intensities derived from internal normalization controls contained on each microarray.

#### Expression Profiles

This section describes an expression profile using the polynucleotides of this invention. The reference set can be used as part of a expression profile which detects changes in the expression of novel genes whose transcripts are modulated in a particular metabolic response, treatment, condition, disorder, or disease. These genes will include genes whose altered expression is correlated with a cancer, an immunopathology, a neuropathology, and the like.

The expression profile comprises a plurality of detectable hybridization complexes. Each complex is formed by hybridization of one or more probes to one or more complementary targets. At least one of the probes, preferably a plurality of probes, is hybridized to a complementary target forming, at least one and preferably, a plurality of complexes. A complex is detected by incorporating at least one labeling moiety. The expression profiles provide "snapshots" that can show unique expression patterns that are characteristic of a metabolic process, treatment, condition, disorder or disease.

After performing hybridization experiments and detecting signals from a microarray, particular probes can be identified and selected based on their expression patterns. Such probes can be used to clone a full length sequence for the gene, to screen a library for a closely related homolog, to screen for or purify ligands, or to produce a protein.

#### Utility of the Invention

The plurality of polynucleotides can be used as hybridizable elements in a microarray. Such a microarray can be employed in several applications including diagnostics, prognostics and treatment regimens, and drug discovery and development for conditions, disorders, and diseases such as cancer, an immunopathology, a neuropathology and the like.

#### Expression Profiles

In one situation, the microarray is used to monitor the progression of disease. The differences in gene expression between healthy and diseased tissues or cells can be assessed and cataloged. By analyzing changes in patterns of gene expression, disease can be diagnosed at earlier stages before the patient is symptomatic. The invention can be used to formulate a prognosis and to design a treatment regimen. The invention can also be used to monitor the efficacy of treatment. For treatments with known side effects, the microarray is employed to "fine tune" the treatment regimen. A dosage is established that causes a change in genetic expression patterns indicative of successful treatment.

Expression patterns associated with the onset of undesirable side effects are avoided. This approach may be more sensitive and rapid than waiting for the patient to show inadequate improvement, or to manifest side effects, before altering the course of treatment.

Alternatively, animal models which mimic a human disease can be used to characterize expression profiles associated with a particular condition, disorder or disease or the treatment of the condition, disorder or disease. Experimental treatment regimens may be tested in these animal models using microarrays to establish and then follow expression profiles over time. In addition, microarrays may be used with cell cultures or tissues removed from animal models to rapidly screen large numbers of candidate drug molecules, looking for ones that produce an expression profile similar to those of known therapeutic drugs, with the expectation that molecules with the same expression profile will likely have similar therapeutic effects. Thus, the invention provides the means to rapidly determine the molecular mode of action of a drug.

#### Embryonic Stem Cells

Embryonic (ES) stem cells isolated from rodent or human embryos retain the potential to form embryonic tissues. When ES cells such as the mouse 129/SvJ cell line are placed in a blastocyst from the C57BL/6 mouse strain, they resume normal development and contribute to tissues of the live-born animal. ES cells are preferred for use in the creation of experimental knockout and knockin animals. In mice, the method for this process is well known in the art and the steps are: the cDNA is introduced into a vector, the vector is transformed into ES cells, transformed cells are identified and microinjected into mouse cell blastocysts, blastocysts are surgically transferred to pseudopregnant dams. The resulting chimeric progeny are genotyped and bred to produce heterozygous or homozygous strains.

ES cells are also used for the treatment of victims of Parkinson's disease, stroke, and other neuropathologies (The Scientist, 14(18):1ff; September 2000). Pharmaceutical companies are also targeting disorders of the liver, kidney, and pancreas, specifically alpha-1 antitrypsin, polycystic kidney disease, and diabetes, respectively. In time, traumatic damage to the nervous system and internal organs may also be treated by transplantation of cells or organs which are differentiated from embryonic stem cells. The present invention may be used to characterize the developmental pathways of the differentiation processes that give rise to brain, heart, kidney, liver, lung, muscle, ovarian, pancreatic, small intestine, stomach, or uterine tissues.

#### Knockout Analysis

In gene knockout analysis, a region of a gene is enzymatically modified to include a non-natural intervening sequence such as the neomycin phosphotransferase gene (neo; Capecchi (1989) Science 244:1288-1292). The modified gene is transformed into cultured ES cells and integrates into the endogenous genome by homologous recombination. The inserted sequence disrupts transcription and translation of the endogenous gene.

Knockin Analysis

ES cells can be used to create knockin humanized animals or transgenic animal models of human diseases. With knockin technology, a region of a human gene is injected into animal ES cells, and the human sequence integrates into the animal cell genome. Transgenic progeny or inbred lines are  
5 studied and treated with potential pharmaceutical agents to obtain information on the progression and treatment of the analogous human condition.

As described herein, the uses of the cDNAs, provided in the Sequence Listing of this application, and their encoded proteins are exemplary of known techniques and are not intended to reflect any limitation on their use in any technique that would be known to the person of average skill in  
10 the art. Furthermore, the cDNAs provided in this application may be used in molecular biology techniques that have not yet been developed, provided the new techniques rely on properties of nucleotide sequences that are currently known to the person of ordinary skill in the art, e.g., the triplet genetic code, specific base pair interactions, and the like. Likewise, reference to a method may include combining more than one method for obtaining, assembling or expressing cDNAs that will be known to  
15 those skilled in the art. It is also to be understood that this invention is not limited to the particular methodology, protocols, and reagents described, as these may vary. It is also understood that the terminology used herein is for the purpose of describing particular embodiments only, and is not intended to limit the scope of the present invention which will be limited only by the appended claims. The examples below are provided to illustrate the subject invention and are not included for the purpose  
20 of limiting the invention.

### EXAMPLES

For purposes of example, the preparation and sequencing of the BRAINON01 cDNA library is described. Preparation and sequencing of other cDNAs in libraries in the LIFESEQ database (Incyte Genomics) have varied over time, and the gradual changes involved use of kits, plasmids, and  
25 machinery available at the particular time the library was made and analyzed.

#### **I cDNA Library Construction**

The BRAINON01 normalized cDNA library was constructed from cancerous brain tissue obtained from a 26-year-old Caucasian male during cerebral meningeal excision following diagnosis of grade 4 oligoastrocytoma localized in the right fronto-parietal part of the brain. The tumor had been  
30 irradiated (5800 rads). Patient history included hemiplegia, epilepsy, ptosis of eyelid, and common migraine, and medications included Dilantin® (Parke-Davis, Morris Plains NJ).

The frozen tissue was homogenized and lysed using a POLYTRON homogenizer (PT-3000; Brinkmann Instruments, Westbury NY) in guanidinium isothiocyanate solution. The lysate was extracted with acid phenol, pH 4.7, per Stratagene RNA isolation protocol (Stratagene, San Diego  
35 CA). The RNA was extracted with an equal volume of acid phenol, reprecipitated using 0.3 M sodium

acetate and 2.5 volumes of ethanol, resuspended in DEPC-treated water, and treated with DNase for 25 min at 37°C. The RNA extraction was repeated with phenol, pH 8.7, and precipitated with sodium acetate and ethanol as before. The mRNA was isolated with the OLIGOTEX kit (Qiagen, Chatsworth CA) and used to construct the cDNA library.

5        The mRNA was handled according to the recommended protocols in the SUPERScript plasmid system (Life Technologies). cDNAs were fractionated on a SEPHAROSE CL4B column (Amersham Pharmacia Biotech), and those cDNAs exceeding 400 bp were ligated into PSPORT I plasmid (Life Technologies). The plasmid was transformed into DH5 $\alpha$  competent cells (Life Technologies) to construct the BRAINOT03 library.

## 10    II        Normalization of the cDNA Library

4.9 x 10<sup>6</sup> independent clones of the BRAINOT03 library were grown in liquid culture under carbenicillin (25mg/L) and methicillin (1mg/ml) selection following transformation by electroporation into DH12S competent cells (Life Technologies). The culture was monitored using a DU-7 spectrophotometer (Beckman Coulter, Fullerton CA) until it reached an OD<sub>600</sub> of 0.2, and then  
15    superinfected with a 5-fold excess of the helper phage M13K07 (Vieira et al. (1987) Methods Enzymol 153:3-11).

To reduce the number of highly expressed cDNAs, the library was normalized in a single round according to the procedure of Soares et al. (1994, Proc Natl Acad Sci 91:9928-9932) with the following modifications: 1) the primer to template ratio in the primer extension reaction was increased  
20    from 2:1 to 10:1, 2) the ddNTP concentration was reduced to 150 $\mu$ M to allow generation of longer (400-1000nt) primer extension products, and 3) the reannealing hybridization was extended from 13 to 48 hours. After the single stranded DNA circles were purified by hydroxyapatite chromatography and converted to partially double-stranded by random priming, the cDNAs were electroporated into DH10B competent bacteria (Life Technologies) to construct the BRAINON01 normalized library.

## 25    III        Isolation and Sequencing of cDNA Clones

Plasmid DNA was released from bacterial cells and purified using the REAL Prep 96 plasmid kit (Qiagen). This kit enabled the simultaneous purification of 96 samples in a 96-well block using multi-channel reagent dispensers. The recommended protocol was employed except for the following changes: 1) the bacteria were cultured in 1 ml of sterile TERRIFIC BROTH (BD Biosciences, Sparks  
30    MD) with carbenicillin at 25 mg/L and glycerol at 0.4%; 2) the cultures were inoculated, incubated for 19 hours, and then lysed with 0.3 ml of lysis buffer; and 3) following isopropanol precipitation, the plasmid DNA pellet was resuspended in 0.1 ml of distilled water.

The cDNAs were prepared using a MICROLAB 2200 system (Hamilton, Reno NV) in combination with DNA ENGINE thermal cyclers (PTC200; MJ Research, Waltham MA). The  
35    cDNAs were sequenced by the method of Sanger and Coulson (1975; J Mol Biol 94:441f) using ABI

PRISM 377 DNA sequencing systems (Applied Biosystems). Most of the sequences were sequenced using standard ABI protocols and kits (Applied Biosystems) at solution volumes of 0.25x - 1.0x. In the alternative, some of the sequences were sequenced using solutions and dyes from Amersham Pharmacia Biotech.

5

#### IV Selection of Sequences for the Microarray

Incyte clones were mapped to non-redundant Unigene clusters (Unigene database (build 46), NCBI; Shuler (1997) J Mol Med 75:694-698), and the 5' clone with the strongest BLAST alignment (at least 90% identity and 100 bp overlap) was chosen, verified, and used in the construction of the  
10 microarray. The UNIGEM V microarray (Incyte Genomics) contains 7075 array elements which represent 4610 annotated genes and 2,184 unannotated clusters. Table 1 shows the GenBank 119 annotations for SEQ ID NOs:1-416 of this invention as produced by BLAST analysis.

#### V Homology Searching of Polynucleotides and Proteins

BLAST involves finding similar segments between the query sequence and a database  
15 sequence, evaluating the statistical significance of any similarities, and reporting only those matches that satisfy a user-selectable threshold of significance. BLAST produces alignments of both nucleotide and amino acid sequences to determine sequence similarity.

The fundamental unit of the analysis is the High scoring Segment Pair (HSP). An HSP consists of two sequence fragments of arbitrary, but equal lengths, whose alignment is locally maximal  
20 and for which the alignment score meets or exceeds threshold of significance set by the user.

The basis of the search is the product score, which is defined as:

$$\frac{\% \text{ sequence identity} \times \% \text{ maximum BLAST score}}{100}$$

The product score takes into account both the degree of identity between two sequences and the  
25 length of the sequence match as reflected in the BLAST score. The BLAST score is calculated by scoring +5 for every base that matches in an HSP and -4 for every mismatch. For a product score of 40, the match will be exact within a 1% to 2% error and for a product score of 70, the match will be exact. Homologous molecules usually show product scores between 15 and 40, although lower scores may identify related molecules. The P-value for any given HSP is a function of its expected frequency  
30 of occurrence and the number of HSPs observed against the same database sequence with scores at least as high.

Percent sequence identity is found in a comparison of two or more amino acid or nucleic acid sequences. Percent identity can be determined electronically using the MEGALIGN program, a component of LASERGENE software (DNASTAR). The percent similarity between two amino acid  
35 sequences is calculated by dividing the length of sequence A, minus the number of gap residues in



sequence A, minus the number of gap residues in sequence B, into the sum of residue matches between sequence A and sequence B, times one hundred. Gaps of low or of no homology between the two amino acid sequences are not included in determining percentage similarity.

Sequences with conserved protein motifs may be searched using the BLOCKS search program.

5 This program analyses sequence information contained in the Swiss-Prot and PROSITE databases and is useful for determining the classification of uncharacterized proteins translated from genomic or cDNA sequences (Bairoch et al. (1997) *Nucleic Acids Res* 25:217-221; Attwood et al. (1997) *J Chem Inf Comput Sci* 37:417-424). PROSITE database is a useful source for identifying functional or structural domains that are not detected using motifs due to extreme sequence divergence. Using  
10 weight matrices, these domains are calibrated against the SWISS-PROT database to obtain a measure of the chance distribution of the matches.

The PRINTS database can be searched using the BLIMPS search program to obtain protein family "fingerprints". The PRINTS database complements the PROSITE database by exploiting groups of conserved motifs within sequence alignments to build characteristic signatures of different  
15 protein families. For both BLOCKS and PRINTS analyses, the cutoff scores for local similarity were: >1300=strong, 1000-1300=suggestive; for global similarity were:  $p < \exp^{-3}$ ; and for strength (degree of correlation) were: >1300=strong, 1000-1300=weak.

#### VI Extension of cDNA Clones

Some of the nucleic acid sequences of the Sequence Listing, designed F, R, or T, were  
20 produced by extension of an appropriate fragment of the original clone insert using oligonucleotide primers designed from this fragment. One primer was synthesized to initiate 5' extension of the known sequence, and the other primer, to initiate 3' extension of the known sequence. The initial primers were designed using OLIGO software (Molecular Insights, Cascade CO), or another appropriate program, to be about 22 to 30 nucleotides in length, to have a GC content of about 50% or more, and to anneal to  
25 the target sequence at temperatures of about 68°C to about 72°C. Any stretch of nucleotides which would result in hairpin structures and primer-primer dimerizations was avoided.

Selected human cDNA libraries were used to extend the sequence. If more than one extension was necessary or desired, additional or nested sets of primers were designed.

High fidelity amplification was obtained by PCR using methods well known in the art. PCR  
30 was performed in 96-well plates using the DNA ENGINE thermal cycler (MJ Research). The reaction mix contained DNA template, 200 nmol of each primer, reaction buffer containing  $Mg^{2+}$ ,  $(NH_4)_2SO_4$ , and  $\beta$ -mercaptoethanol, Taq DNA polymerase (Amersham Pharmacia Biotech), ELONGASE enzyme (Life Technologies), and Pfu DNA polymerase (Stratagene), with the following parameters for primer pair PCI A and PCI B: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 68°C,  
35 2 min; Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C. In the

alternative, the parameters primer pair T7 and SK+ were as follows: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 57°C, 1 min; Step 4: 68°C, 2 min; Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C.

The concentration of DNA in each well was determined by dispensing 100 µl PICOGREEN reagent (0.25% v/v PICOGREEN (Molecular Probes, Eugene OR) dissolved in 1x TE) and 0.5 µl of undiluted PCR product into each well of an opaque fluorimeter plate (Corning Costar, Acton MA), allowing the DNA to bind to the reagent. The plate was scanned in a Fluoroskan II (Labsystems Oy, Helsinki FI) to measure the fluorescence of the sample and to quantify the concentration of DNA. A 5 µl to 10 µl aliquot of the reaction mixture was analyzed by electrophoresis on a 1 % agarose minigel to determine which reactions were successful in extending the sequence.

The extended nucleotides were desalted and concentrated, transferred to 384-well plates, digested with CviJI cholera virus endonuclease (Molecular Biology Research, Madison WI), and sonicated or sheared prior to religation into pUC 18 vector (Amersham Pharmacia Biotech). For shotgun sequencing, the digested nucleotides were separated on 0.6% to 0.8% agarose gels, fragments were excised, and agar digested with AGARACE (Promega). Extended clones were religated using T4 ligase (New England Biolabs, Beverly MA) into pUC 18 vector (Amersham Pharmacia Biotech), treated with Pfu DNA polymerase (Stratagene) to fill-in restriction site overhangs, and transfected into competent *E. coli* cells. Transformed cells were selected on antibiotic-containing media, and individual colonies were picked and cultured overnight at 37°C in 384-well plates in LB/2x carbenicillin liquid media.

The cells were lysed, and DNA was amplified using Taq DNA polymerase (Amersham Pharmacia Biotech) and Pfu DNA polymerase (Stratagene) with the following parameters: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 72°C, 2 min; Step 5: steps 2, 3, and 4 repeated 29 times; Step 6: 72°C, 5 min; Step 7: storage at 4°C. DNA was quantified by PICOGREEN reagent (Molecular Probes) as described above. Samples with low DNA recoveries were reamplified using the conditions described above. Samples were diluted with 20% dimethylsulphoxide (1:2 v/v), and sequenced using DYENAMIC energy transfer sequencing primers and the DYENAMIC DIRECT kit (Amersham Pharmacia Biotech) or the ABI PRISM BIGDYE terminator kit (Applied Biosystems).

## VII mRNA for Target Polynucleotides

The mRNAs or tissues for preparing target polynucleotides were obtained from Biochain Institute (San Leandro CA), International Institute for Advanced Medicine (Exeter PA), and Oncormed (Gaithersburg MD). RNA was extracted from tissue samples using the extraction protocol and purification procedures described above.

## VIII Microarray Preparation, Labeling of Targets, and Hybridization Analyses

### 35 Substrate Preparation

Probe polynucleotides were amplified from bacterial vectors by thirty cycles of PCR using

primers complementary to vector sequences flanking the insert and purified using SEPHACRYL-400 beads (Amersham Pharmacia Biotech). Purified polynucleotides were robotically arrayed onto a glass microscope slide (Corning Science Products, Corning NY) previously coated with 0.05% aminopropyl silane (Sigma-Aldrich) and cured at 110°C. The microarray was exposed to UV irradiation in a

5 STRATALINKER UV-crosslinker (Stratagene).

Target Preparation

Each mRNA sample, shown in Table 2, was reverse transcribed using MMLV reverse transcriptase in the presence of dCTP-Cy3 or dCTP-Cy5 (Amersham Pharmacia Biotech) according to standard protocol. After incubation at 37°C, the reaction was stopped with 0.5 M sodium hydroxide,  
10 and RNA was degraded at 85°C. The target polynucleotides were purified using CHROMASPIN 30 columns (Clontech, Palo Alto CA) and ethanol precipitation.

Hybridization

The hybridization mixture, containing 0.2 mg of each of the Cy3 and Cy5 labeled target polynucleotides, was heated to 65°C, and dispensed onto the UNIGEM V microarray (Incyte Genomics)  
15 surface. The microarray was covered with a coverslip and incubated at 60°C C. The microarrays were sequentially washed at 45°C in moderate stringency buffer (1xSSC and 0.1% SDS) and high stringency buffer (0.1xSSC) and dried.

Detection

A confocal laser microscope was used to detect the fluorescence-labeled hybridization  
20 complexes. Excitation wavelengths were 488 nm for Cy3 and 632 nm for Cy5. Each array was scanned twice, one scan per fluorophore. The emission maxima was 565 nm for Cy3 and 650 nm for Cy5. The emitted light was split into two photomultiplier tube detectors based on wavelength. The output of the photomultiplier tube was digitized and displayed as an image, where the signal intensity was represented using a linear 20 color transformation, with red representing a high signal and blue a low signal. The  
25 fluorescence signal for each probe was integrated to obtain a numerical value corresponding to the signal intensity using GEMTOOLS expression analysis software (Incyte Genomics).

**IX Data Analysis and Results**

Out of the 7075 genes present on UNIGEM V, 3627 genes or 51 % were expressed at a significant level across all 30 tissue samples. Significance was defined as signal to background ratio  
30 exceeding 2.5 and area hybridization exceeding 40% for both probes. All data was transformed so that differential gene expression values were Log base 2 scale.

Analysis of Variance

For each gene, an ANOVA test was run using the tissue categories as the grouping variable. The ANOVA tested whether measurements across samples belonging to known categories were  
35 associated with those categories. ANOVA compares the Variance between (Vb) categories to the Variance within (Vw) categories. The ratio of Vb divided by Vw (F ratio) was compared to the F

distribution for a population with equal degree of freedom (DF) and the probability of the F ratio was returned.

### Anova Computation

5

$$F = \frac{V_{between}}{V_{within}} \quad V_{within} = \frac{\sum_i (X_i - \bar{X}_G)^2}{(N - k)} \quad V_{between} = \frac{\sum_G N_G (\bar{X}_G - \bar{X}_T)^2}{(k - 1)}$$

$$DF = (N-k)*(k-1)$$

$X_i$  : Individual value

$N_G$  : Number of Individuals in Category

$\bar{X}_G$  : Category Mean

$\bar{X}_T$  : Population Mean

$N$  : Number of Individuals

$k$  : Number of Categories

The null hypothesis states that if the measurement variations between samples are due to chance only, the variance within categories and variance between categories should be the same.

- 10 Therefore, in the absence of any significant association between gene expression and tissue categories, the probability returned by ANOVA is equal to 1. Reciprocally, a strong association between gene expression and tissue categories implies that the variance between samples is significantly greater than the variance within categories, and therefore the probability returned by ANOVA is small.

The data for the 340 genes shown in Table 3 was used to produce Table 4 which shows that each gene

- 15 selected for annotation scored an ANOVA probability equal or below  $10^{-5}$ .

### Gene Annotation

- Since selection criterion imposed that the variances of measurement within tissue categories were small (see above), it was acceptable to summarize these measurements as the average of the measurements within each tissue category. Furthermore, in order to emphasize differences between
- 20 tissue categories for each gene, the differences between tissue averages and all-tissues average were computed; formula and values are shown in Table 5.

- Using these differential average values, genes were associated with a primary tissue category according to the highest differential average value. A minimum differential average value of 1.5 was required to associate a gene with a tissue category. When possible, genes were associated with a
- 25 secondary, tertiary, and even quaternary tissue category according to the second, third, and fourth highest differential average values, respectively.

### **X Screening Molecules for Specific Binding with the Polynucleotide or Protein**

- The polynucleotide or fragments thereof and the protein or portions thereof are labeled with  $^{32}\text{P}$ -dCTP, Cy3-dCTP, Cy5-dCTP (Amersham Pharmacia Biotech), or BIODIPY or FITC (Molecular
- 30 Probes), respectively. Candidate molecules or compounds previously arranged on a substrate are incubated in the presence of labeled nucleic or amino acid. After incubation under conditions for either a

polynucleotide or protein, the substrate is washed, and any position on the substrate retaining label, which indicates specific binding or complex formation, is assayed. The binding molecule is identified by its arrayed position on the substrate. Data obtained using different concentrations of the nucleic acid or protein are used to calculate affinity between the labeled nucleic acid or protein and the bound molecule.

- 5 High throughput screening using very small assay volumes and very small amounts of test compound is fully described in Burbaum et al. USPN 5,876,946.

All patents and publications mentioned in the specification are incorporated herein by reference. Various modifications and variations of the described method and system of the invention will be apparent to those skilled in the art without departing from the scope and spirit of the invention.

- 10 Although the invention has been described in connection with specific preferred embodiments, it should be understood that the invention as claimed should not be unduly limited to such specific embodiments. Indeed, various modifications of the described modes for carrying out the invention that are obvious to those skilled in the field of molecular biology or related fields are intended to be within the scope of the following claims.

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
1	2380381	209	1345551CBI	heart	g602702 mitochondrial 2,4-dienoyl-CoA
2	1618422	210	1618422.con	heart	g285990 mRNA for KIAK0002 gene
3	2672064	211	4646418CBI	heart	g1399027 cysteine rich prot 2
4	608361	212	608361.con	heart	g6808282 mRNA; cDNA DKFZp586O0221
5	1922596	213	2483470CBI	heart	g3452378 glutamate oxaloacetate transaminase, exon 9
6	1850033	214	1850033CBI	heart	g189010 HUMMLC2At
7	986987	215	3030106CBI	heart	g809558 mRNA for cardiac myosin bindin
8	718807	216	718807.con	heart	g1526977 mRNA for ryanodine receptor 2
9	2880435	217	2880435.con	heart	g1841371 MURR1 mRNA
10	187326	218	187326.con	heart	g4071059 TNNT3
11	3208425	219	3208425.con	skel muscle	g28596 aldolase A
12	1668474	220	1668474.con	skel muscle	g178645 erythroid ankyrin mRNA
13	1622542	221	1622542.con	skel muscle	g3882276 mRNA for KIAA0778 protein
14	4014318	222	4014318.con	skel muscle	g306472 DHP-sensitive calcium channel
15	2394888	223	1485879CBI	skel muscle	g791039 mRNA for skeletal muscle-specific calpain
16	1345550	224	2637261CBI	skel muscle	g179787 carbonic anhydrase III
17	1719955	225	1719955.con	skel muscle	g34788 mRNA for muscle specific enolase
18	2256026	226	2256026.con	skel muscle	g1021572 CpG island DNA genomic Mse I fragment
19	1538086	227	2501821CBI	skel muscle	g1212945 mRNA for guanidinoacetateN-methyltransferase
20	958633	228	1532783CBI	skel muscle	g7297634 CG5676 gene product
21	2635943	229	3013501CBI	skel muscle	g3153910 muscle glycogen phosphorylase
22	121888	230	3405838CBI	skel muscle	g4808812 myosin heavy chain IIa
23	1627492	231	1627492.con	skel muscle	g3127082 FIP2 alternatively translated mRNA
24	4073867	232	3354111CBI	skel muscle	g4426911 phytanoyl-CoA alpha hydroxylase
25	2190170	233	1866437CBI	skel muscle	g5759308 putative glialblastoma cell differentiation-related protein
26	972224	234	972224.con	skel muscle	g1220345 myosin light chain 2
27	1413644	235	1413644CBI	skel muscle	g409928 adenyl cyclase-associated prot (CAP2)
28	1538224	236	1538224.con	skel muscle	g439602 Rad mRNA
29	2623268	237	2623268.con	skel muscle	g6523810 FEZ2 protein
30	1665533	238	1665533.con	skel muscle	g1620035 XIB mRNA, complete cds
31	981484	239	981484CBI	skel muscle	g34837 MYF6 for muscle determination factor
32	973629	240	973629.con	skel muscle	g188591 alkali myosin light chain I

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
33	1539638	241	1539638CB1	skel muscle	g188582 myosin light chain 1 slow a
34	3015758	242	3010791CB1	skel muscle	g402646 mRNA for fast MyBP-C
35	2832314	243	2832314.con	skel muscle	g338826 TCB gene encoding cytosolic thyroid hormone-binding protein
36	1702996	244	912973CB1	skel muscle	g180621 cytoplasmic linker protein-170 alpha 2
37	839947	245	122365CB1	skel muscle	g337721 ryanodine receptor mRNA
38	1867522	246	974936CB1	skel muscle	g1943766 sarcoplipin
39	1987831	247	1987831.con	skel muscle	g180708 calcineurin A2
40	2639708	248	1642009CB1	skel muscle	g339964 slow-twitch skeletal troponin I
41	973815	249	2148260CB1	skel muscle	g546020 troponin T
42	2079906	250	1852756CB1	Uterus	g190153 replication factor C
43	2852042	251	2852042.con	Uterus	g181070 cysteine-rich peptide mRNA
44	2368282	252	2665890CB1	Ovary	g181375 cholesterol side-chain cleavage
45	2831248	253	2831248.con	Ovary	g32344 gene for heterogeneous RNP
46	182802	254	182802.con	Ovary	g257052 3 beta-hydroxysteroid dehydrogenase
47	1003884	255	1520287CB1	Ovary	g186836 laminin B1 chain
48	1120	256	1120.con	Ovary	g35902 mRNA for ribosomal protein L7
49	1285380	257	1516165CB1	Stomach	g7339519 mRNA for procathepsin E
50	1636639	258	1636639.con	Stomach	g3005731 clone 24747 mRNA sequence
51	1985870	259	1985870.con	Stomach	g8346840 partial LGALS9 gene for galectin 9 exons
52	1677936	260	3665933CB1	Stomach	g31771 mRNA for gastric lipase
53	910612	261	910612.con	Stomach	g38068 Japanese macaque pepsinogen A-2/3
54	2594407	262	807530CB1	Stomach	g1658285 gastricsin mRNA
55	963536	263	963536.con	Stomach	g35706 pS2 mRNA induced by estrogen
56	434377	264	434377.con	Intestine	g599833 VE-cadherin mRNA
57	2121863	265	2121863.con	Intestine	g719268 cysteine-rich heart protein (hCRHP)
58	1597231	266	1597231CB1	Intestine	g1185451 cytochrome P450 monooxygenase
59	4174437	267	4174437.con	Intestine	g181532 defensin 5 gene
60	2182901	268	2182901.con	Intestine	g181546 defensin 6 mRNA
61	1747979	269	1811382CB1	Intestine	g30822 mRNA for diacylglycerol kinase
62	1630553	270	1630553.con	Intestine	g178285 angiotensin I-converting enzyme
63	478960	271	155179CB1	Intestine	g6647301 matriptase mRNA
64	2132487	272	2132487.con	Intestine	g391772 regenerating protein I

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
65	2921152	273	2921152CB1	Intestine	g971462 mRNA for I-15P (I-BABP)
66	1846428	274	1800311CB1	Intestine	g183414 guanylin mRNA
67	2796143	275	610574CB1	Intestine	g2924619 mRNA for hepatocyte growth factor activator inhibitor type 2
68	1805613	276	1805613.con	Intestine	g1814276 A33 antigen precursor
69	1431273	277	989613CB1	Intestine	g535474 N-benzoyl-L-tyrosyl-p-amino-benzoic acid hydrolase
70	1804662	278	1804662.con	Intestine	g2058317 mRNA for putative carboxylesterase
71	2921194	279	2921194.con	Intestine	g2385451 mRNA for galectin-3
72	395368	280	395368.con	Intestine	g2826520 maltase-glucoamylase
73	2182861	281	1845979CB1	Intestine	g454153 intestinal mucin (MUC2)
74	1806436	282	1751028CB1	Intestine	g187468 P-glycoprotein (PGY1)
75	2922143	283	1501077CB1	Intestine	g36644 si mRNA for sucrase-isomaltase
76	876720	284	3130321CB1	Lung	g190845 receptor for advanced glycosylation end products (RAGE)
77	1910091	285	1910091.con	Lung	g1699037 ABC3 mRNA
78	2174130	286	2174130.con	Lung	g181467 decay-accelerating factor
79	2219077	287	g6580818	Lung	g6580814 indolethylamine N-methyltransferase
80	1965041	288	1965041.con	Lung	g3882236 mRNA for KIAA0758 protein
81	1649959	289	1649959.con	Lung	g186729 mesothelial keratin K7
82	1222317	290	1222317CB1	Lung	g179916 CAPL protein mRNA
83	2510171	291	939088CB1	Lung	g36490 secretory leucocyte protease inhibitor
84	1988674	292	1988674.con	Lung	g190673 pulmonary surfactant-associated prot B
85	1672640	293	1672640.con	Lung	g37946 mRNA for pre-pro-von Willebrand
86	1926543	294	g4884115	Liver	g23875 3-oxoacyl-CoA thiolase
87	1504934	295	1504934.con	Liver	g28560 peroxisomal L-alanine:glyoxylate aminotransferase
88	2512879	296	2512879.con	Liver	g178089 class I alcohol dehydrogenase (ADH1) alpha subunit
89	1359832	297	1359832.con	Liver	g5002378 alcohol dehydrogenase beta2 subunit
90	1583076	298	1583076.con	Liver	g178147 alcohol dehydrogenase class I gamma subunit
91	139838	299	139838CB1	Liver	g178120 class II alcohol dehydrogenase (ADH4)
92	1344654	300	1344654.con	Liver	g219409 mRNA for alpha-2-plasmin inhibitor
93	2513979	301	2513979.con	Liver	g28747 mRNA for apolipoprotein AII prec
94	2369312	302	2369312.con	Liver	g28802 mRNA for precursor of apolipoprotein CI
95	2048364	303	2514629CB1	Liver	g28805 mRNA for lipoprotein apoCII
96	85246	304	85246.con	Liver	g178856 apolipoprotein H



TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
97	166337	305	139825CB1	Liver	g178994 liver arginase mRNA
98	138274	306	138274CB1	Liver	g179078 asialoglycoprotein receptor H1
99	1633340	307	4285165CB1	Liver	g5020419 carbamyl phosphate synthetase I
100	1982416	308	630729CB1	Liver	g180255 ceruloplasmin
101	946822	309	946822.con	Liver	g182389 coagulation factor X
102	2517330	310	2517330.con	Liver	g179721 complement component C8-gamma
103	2516489	311	272669CB1	Liver	g179970 corticosteroid binding globulin
104	88741	312	138361CB1	Liver	g180986 cytochrome P450IIA3 (CYP2A3)
105	168865	313	168865CB1	Liver	g263688 cytochrome P450 2C [Macaca
106	231779	314	271684CB1	Liver	g510085 (clone NF 10) cytochrome P450 nifedipine oxidase
107	234123	315	2513588CB1	Liver	g181394 cytosolic epoxide hydrolase
108	1833801	316	1626663CB1	Liver	g8164183 22kDa peroxisomal membrane p
109	1923613	317	1923613.con	Liver	g6523808 carbonyl reductase mRNA
110	2058620	318	2058620.con	Liver	g7023255 cDNA FLJ10913 fis
111	1930954	319	1965888CB1	Liver	g7023313 cDNA FLJ10948 fis
112	1511658	320	1486348.con	Liver	g182406 fibrinogen alpha subunit
113	2590673	321	2590673.con	Liver	g188630 flavin-containing monooxygenase form II
114	1995380	322	1995380.con	Liver	g183655 glutathione S-transferase
115	167409	323	2078240CB1	Liver	g31675 mRNA for group-specific component
116	1846226	324	1846226.con	Liver	g6759555 mRNA for putative progesterone bp
117	2052185	325	185986CB1	Liver	g184487 hemopexin mRNA
118	2517389	326	085596CB1	Liver	g184391 histidine-rich glycoprotein
119	911015	327	1544305CB1	Liver	g2865608 homogentisate 1,2-dioxygenas
120	604856	328	149832CB1	Liver	g494988 nicotinamide N-methyltransferase
121	1448718	329	1448718.con	Liver	g183117 insulin-like growth factor bp
122	2517268	330	2517268.con	Liver	g33988 mRNA for inter-alpha-trypsin inhibitor
123	167134	331	085011CB1	Liver	g33984 second protein of inter-alpha-trypsin inhibitor complex
124	2843638	332	2843638.con	Liver	g3236285 leptin receptor short form
125	1813269	333	1297817CB1	Liver	g180947 carboxylesterase mRNA
126	1861971	334	2517374CB1	Liver	g24444 mRNA for alpha1-acid glycoprotein (orosomuoid)
127	2005973	335	2005973CB1	Liver	g189410 oxytocin mRNA
128	2515729	336	2515729CB1	Liver	g35896 mRNA for retinol binding protein

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
129	2132356	337	2132356.con	Liver	g35689 liver mRNA for protein C
130	1001726	338	2614869CB1	Liver	g5834471 mRNA for regucalcin
131	2631845	339	2631845.con	Liver	g1160968 serum amyloid A
132	86390	340	086390CB1	Liver	g337749 serum amyloid A protein
133	1287840	341	2881975CB1	Liver	g432974 sterol carrier protein X
134	2516905	342	g5596369	Liver	g5596369 transferrin receptor 2 alpha
135	606122	343	606122.con	Liver	g36712 mRNA for tyrosine aminotransferase
136	3553733	344	2515740CB1	Liver	g4530276 lipopolysaccharide-binding p
137	1813381	345	1272023CB1	Liver	g36574 mRNA for S-protein
138	1634342	346	1634342.con	Kidney	g2707821 aldehyde reductase (ALDR1)
139	1418871	347	629242CB1	Kidney	g3523100 Ksp-cadherin (CDH16)
140	3766382	348	3766382.con	Kidney	g2708638 carbonic anhydrase precursor
141	943181	349	3485891CB1	Kidney	g521073 mRNA for chloride channel
142	603761	350	3321896CB1	Kidney	g1809239 glycoprotein receptor gp330
143	1297562	351	1297562.con	Kidney	g2213812 podocalyxin-like protein
144	2910715	352	2910715.con	Kidney	g7768681 genomic DNA, chromosome 21q
145	196975	353	1612344CB1	Kidney	g296365 mRNA for propionyl-CoA carboxylase a-chain
146	1453049	354	1453049.con	Kidney	g452649 mRNA for lung amiloride sensitive Na+ channel
147	1968695	355	1881237CB1	Kidney	g339204 (clone V6) transcobalamin II
148	958344	356	3669695CB1	Kidney	g340165 uromodulin (Tamm-Horsfall glycoprotein)
149	254081	357	2776408CB1	Pancreas	g537511 alpha-amylase mRNA
150	1330674	358	1330674.con	Pancreas	g187149 bile salt-activated lipase (BAL)
151	2377834	359	2377834.con	Pancreas	g35329 mRNA for procarboxypeptidase A1
152	2075464	360	1307376CB1	Pancreas	g790226 preprocarboxypeptidase A2
153	2383235	361	4166960CB1	Pancreas	g180885 colipase mRNA
154	1285503	362	g180331	Pancreas	g180331 cystic fibrosis mRNA, CFTR
155	2383205	363	2383205.con	Pancreas	g182057 pancreatic elastase IIA mRNA
156	2015871	364	2015871.con	Pancreas	g607029 elastase III B mRNA
157	2374046	365	2088688CB1	Pancreas	g163497 PDI (E.C.5.3.4.1)
158	1709828	366	1709828.con	Pancreas	g325464 endogenous retrovirus type C oncovirus sequence
159	2061119	367	1515152CB1	Pancreas	g31107 mRNA for elongation factor 2
160	3665105	368	3665105.con	Pancreas	g1244511 pancreatic zymogen granule membrane protein GP-2

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
161	2068983	369	2068983.con	Pancreas	g893381 mRNA for Reg-related sequence
162	2242648	370	3526170CB1	Pancreas	g7023457 cDNA FLJ11041 fis
163	885032	371	5070239CB1	Pancreas	g187231 pancreatic lipase related prote
164	2383830	372	949518CB1	Pancreas	g190012 phospholipase A-2
165	2085191	373	2085191.con	Pancreas	g521215 pancreatic trypsin 1
166	2792982	374	2792982.con	Pancreas	g3928429 mRNA for trypsinogen IV a-form
167	243123	375	787351CB1	Brain	g1709300 amyloid precursor-like protei
168	382416	376	382416.con	Brain	g182736 cerebellar degeneration-assoc prot
169	1852659	377	1852659.con	Brain	g397934 a2-chimaerin
170	3220181	378	3220181.con	Brain	g251801 glial fibrillary acidic protein
171	1726307	379	1726307.con	Brain	g7669991 mRNA; cDNA DKFZp761L0516
172	1904244	380	1904244.con	Brain	Incye Unique
173	2039955	381	2039955.con	Brain	g600118 extensin-like protein
174	2675641	382	2675641.con	Brain	g189982 testis-specific cAMP-dependent prot kinase catalytic subunit
175	1412749	383	1412749.con	Brain	g6523828 P19 protein mRNA
176	1963854	384	1963854.con	Brain	g9588045 BR13
177	2949085	385	2949085.con	Brain	g3892873 mRNA for GABA-B R1b receptor
178	2963196	386	2963196.con	Brain	g251801 glial fibrillary acidic protein
179	1505977	387	3493359CB1	Brain	g493133 glutamate receptor 2
180	1674985	388	1674985.con	Brain	g2894085 mRNA for p40
181	2109054	389	2109054.con	Brain	g5689336 mRNA for EB3 protein
182	3317039	390	3317039.con	Brain	g3451335 F22162_1
183	2838551	391	2838551.con	Brain	g4426596 islet-brain 1 mRNA
184	1477568	392	1477568.con	Brain	g4322560 cell-line OV177 DRR1
185	2963871	393	2963871.con	Brain	g2865218 integrin binding protein Del-1
186	1740547	394	2847104CB1	Brain	g1263035 neuronal membrane glycoprot
187	2292011	395	2292011.con	Brain	g1710283 neuronal olfactomedin-related ER localized prot
188	1349484	396	1349484.con	Brain	g3882192 mRNA for KIAA0736 protein
189	1674253	397	1674253.con	Brain	g1665814 mRNA for KIAA0275 gene
190	1932189	398	1932189.con	Brain	g307306 neuroendocrine-specific protein A
191	1403041	399	1558165CB1	Brain	g687589 (AF1q) mRNA
192	1486358	400	1486358.con	Brain	g35958 beta-tubulin gene (5-beta)

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
193	1439065	401	3869211CB1	Brain	g2645406 calmodulin-stimulated phosphodiesterase PDE1B1
194	530629	402	530629.con	Brain	g1710192 clone 23586 mRNA sequence
195	1672676	403	g559331	Brain	g559331 mRNA for KIAA0080 gene
196	1989129	404	1989129.con	Brain	g1503987 mRNA for KIAA0202 gene
197	1486348	405	1486348.con	Brain	g662277 mRNA for MOBP
198	1397294	406	1397294.con	Brain	g1236938 transcriptional activator mRN
199	2844322	407	2844322.con	Brain	g1927201 FEZ1 mRNA
200	1481440	408	1481440.con	Brain	3' of g1403054???
201	26459	409	026459CB1	Brain	g3290199 peanut-like 2 (PNUTL2) mRNA
202	1406786	410	1406786.con	Brain	g7669991 mRNA; cDNA DKFZp761L0516
203	1485846	411	1485846.con	Brain	g190084 proteolipid protein
204	2153242	412	2153242.con	Brain	g5817080
205	2157981	413	3335607CB1	Brain	g2921407 EEN-B1 mRNA
206	3244361	414	3244361.con	Brain	g31657 GAT1 mRNA for GABA transporter
207	1986737	415	1289007CB1	Brain	g307287 (clone CCG-B7) mRNA sequence
208	2506867	416	1286746CB1	Brain	g35439 mRNA for protein gene product

Table 2

Source No:	Tissue	Age	Ethnicity/Sex	Cause of Death	Conditions or Diseases
122	Ventricle	39	C/M	gunshot wound	
1822	Heart	44	C/M	intracranial hemorrhage	
B7015	Heart				
6986	Skeletal Muscle	23	A/M	accident	type II diabetes
376	Tibia	41	C/F	NA	cancer
4071	Thigh	64	C/F	NA	
6987	Uterus	45	A/F	accident	
6988	Uterus	49	A/F	accident	
1119	Ovary	47	C/F	NA	
6989	Stomach	59	A/F	accident	cancer
6990	Stomach	45	A/M	accident	
6991	Sm Intestine	57	A/F	accident	
6392	Colon	69	A/F	accident	
3779	Lung	13	C/M	intracranial hemorrhage	
2881	Lung	1.1	C/F	drowning	
2152	Lung	12	C/M	accident	
4209	Liver	56	C/F	NA	ADD, hyperactivity
4133	Liver	60	C/M	NA	cancer
2147	Liver	8	C/F	closed head injury	cancer
6993	Kidney	72	A/M	accident	diabetes, asthma
6994	Kidney	26	A/M	accident	
6995	Kidney	46	A/M	accident	
6996	Pancreas	24	A/M	accident	
6997	Spleen	28	A/M	accident	
6998	Spleen	33	A/M	accident	
6999	Brain	27	A/M	accident	
7000	Brain	23	A/M	accident	
3971	Striatum	78	C/M	NA	Alzheimer's

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2380381	1.38	1.32	2.04	0.77	-0.26	-0.14	-0.93	-1.00	-0.38	-0.38	-0.38	-0.26	0.14	0.26	-0.85
1618422	1.14	1.14	1.38	-1.58	-1.38	-1.43	0.58	0.68	-0.26	-0.26	-0.68	0.38	0.68	0.14	-0.26
2672064	2.23	2.17	1.58	-0.26	-0.58	-0.68	0.58	0.58	-0.85	-0.38	0.00	-0.58	-0.68	-0.38	0.49
608361	2.70	1.89	1.68	0.68	0.38	-0.14	0.93	0.58	-0.77	0.58	0.26	0.26	0.14	-0.14	0.00
1922596	1.72	1.81	1.49	1.85	1.07	0.68	-2.00	-2.10	-1.93	-1.20	-0.49	-1.00	-1.00	-0.77	-1.85
1850033	1.26	4.06	1.00	-1.00	-0.85	-1.14	-1.49	-1.81	-2.07	-1.68	-1.89	-1.68	-2.23	-2.04	-1.85
986987	3.83	3.20	2.93	-2.07	-1.26	-1.93	-2.38	-2.32	-2.66	-2.04	-2.81	-2.68	-2.77	-2.70	-2.23
718807	2.79	3.39	3.25	-1.14	-0.85	-1.00	-1.63	-1.68	-1.14	-0.93	-1.63	-1.38	-1.20	-1.77	-0.85
2880435	1.96	1.68	2.29	-0.77	-0.49	-0.77	0.14	0.14	-0.58	-0.49	-0.38	-0.26	0.00	-0.49	-0.14
187326	3.87	3.14	3.69	-0.58	-0.26	-0.38	-2.49	-1.96	-2.49	-2.56	-2.46	-2.79	-2.66	-2.66	-2.04
1997963	2.61	2.23	1.81	2.81	1.38	1.54	-1.63	-1.72	-1.63	-1.20	-1.07	-1.14	-1.43	-1.07	-1.68
467700	3.42	3.14	2.89	1.20	1.89	1.20	0.00	-0.77	-2.23	0.14	-1.14	-0.38	-1.54	-1.26	-1.85
57382	2.66	2.17	2.46	3.05	2.00	1.81	-2.63	-2.17	-2.51	-2.00	-1.85	-2.35	-2.23	-2.20	-2.96
1222442	2.29	1.63	1.93	2.14	1.32	0.85	-1.85	-1.96	-1.85	-0.58	-0.49	-0.14	-0.85	-0.14	-1.49
4013105	3.45	2.32	2.77	1.63	1.58	1.26	-1.00	-0.58	-1.93	-2.70	-2.07	-2.81	-3.00	-2.98	-1.93
924319	3.54	3.12	2.63	0.58	2.43	-1.26	-3.38	-3.55	-3.43	-3.66	-3.85	-3.67	-3.95	-4.05	-1.43
1645119	2.79	2.43	1.81	0.85	1.38	2.07	-1.14	-1.07	-1.07	-1.49	-0.93	-0.93	-1.00	-0.85	-1.00
1379925	3.17	2.98	2.46	2.23	2.61	2.54	-1.93	-1.54	-2.00	-2.20	-1.54	-2.04	-2.14	-2.20	-1.54
1900961	1.54	2.89	2.38	1.63	0.85	1.68	0.77	0.49	-1.54	-0.68	-1.72	-0.26	-0.85	-0.58	-2.04
3506985	2.35	1.72	1.93	1.07	2.43	1.63	-2.46	-2.56	-2.85	-1.32	-1.14	-0.93	-1.20	0.38	0.00
551403	2.29	1.26	0.49	1.07	1.07	0.77	1.07	1.38	-0.58	0.00	0.14	-2.23	-1.72	-0.93	-1.68
3948420	2.29	1.20	0.58	1.26	1.14	0.93	1.07	1.43	-0.68	0.14	0.26	-2.14	-2.38	-1.00	-1.77
1722853	2.38	1.68	2.20	-0.58	0.00	-1.20	-0.85	-0.77	1.54	0.00	-0.14	-0.93	-0.93	-0.77	-0.77
1557490	1.89	2.04	1.54	-1.43	-1.38	-1.63	0.00	0.14	-1.72	-0.93	-1.07	-2.43	-2.17	-1.58	-1.26
3208425	0.93	1.14	0.38	3.34	1.49	2.29	-0.93	-0.85	-1.20	-0.68	-1.00	-0.68	-0.58	-0.38	-1.43
1668474	1.00	0.00	0.77	3.07	3.19	2.61	-1.49	-1.07	-1.14	-0.85	-1.14	-1.72	-1.43	-1.77	-1.38
1622542	-0.38	-0.58	-0.77	1.81	1.43	1.93	-0.85	-1.14	-1.00	-0.58	-0.77	0.00	-0.49	-0.38	-1.07
4014318	-0.14	0.26	-1.14	3.32	2.96	2.70	0.14	0.00	0.00	-0.26	-0.26	-0.49	-0.38	-0.49	0.00
2394888	-1.26	-1.20	-1.81	2.98	3.17	2.81	-1.43	-1.20	-1.26	-1.43	-1.63	-1.68	-1.43	-1.58	-0.49
1345550	-3.61	-3.90	-3.99	3.10	4.50	3.32	-3.46	-2.85	-4.09	-3.81	-4.06	-4.25	-3.84	-4.41	-3.36

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1719955	-0.26	0.49	-0.26	4.05	2.04	2.61	-2.72	-2.58	-2.51	-2.20	-2.49	-2.72	-2.32	-2.38	-1.96
2256026	-0.14	-0.14	-0.85	2.49	2.66	2.79	-0.26	-0.26	-0.49	-0.85	-0.85	-0.68	-0.68	-0.93	-0.26
1538086	-0.38	0.00	0.00	2.23	1.26	1.85	-1.20	-1.14	-1.00	-0.68	-1.14	-0.77	-0.93	-1.26	-1.14
958633	0.93	1.14	1.49	2.26	1.58	1.43	0.58	0.68	0.93	-0.26	-0.58	-0.68	-0.38	-0.26	-0.38
2635943	-2.20	-1.26	-2.04	4.00	2.91	2.98	-2.79	-2.58	-3.19	-2.29	-3.23	-3.17	-2.41	-3.10	-3.28
121888	-1.68	-1.72	-1.54	2.93	3.38	2.85	-3.60	-3.36	-3.42	-3.22	-3.38	-4.01	-3.90	-4.44	-2.98
1627492	0.00	0.26	0.14	2.41	2.07	2.20	0.00	-0.14	0.68	-0.58	-0.58	-0.58	0.00	-0.38	-1.14
4073867	0.85	0.49	0.26	2.35	1.38	1.68	-0.38	-0.38	0.00	-0.26	-0.26	-0.14	0.00	0.14	-0.85
2190170	0.49	0.49	0.38	2.93	2.14	2.38	0.68	0.58	0.68	0.00	-0.14	-0.14	0.00	0.14	0.26
972224	-2.26	-1.68	-3.56	4.73	3.29	3.26	-2.81	-2.81	-3.32	-2.72	-3.34	-3.54	-3.72	-3.61	-3.17
1413644	-0.14	0.00	-0.58	2.83	2.10	1.96	-0.85	-0.14	-1.58	-0.58	-1.63	-0.85	-0.93	-1.20	-1.89
1538224	0.68	1.77	1.07	1.89	2.07	1.38	0.14	-0.14	-0.26	-0.58	-0.93	-0.58	-0.38	-0.68	0.26
2623268	-0.58	0.14	-0.58	1.43	1.38	1.93	0.38	0.58	-0.26	0.58	-0.26	-0.85	-0.58	-0.49	-1.14
1665533	0.58	0.49	0.26	1.89	2.20	1.63	-0.14	-0.14	-0.26	-0.58	-0.38	-0.77	-0.26	-0.26	-0.14
981484	-0.77	-0.77	-0.58	1.72	1.85	2.17	-1.20	-1.20	-1.26	-0.58	-0.85	-0.93	-0.93	-1.14	-0.85
973629	-1.68	-0.85	-2.32	4.27	3.51	3.31	-2.87	-2.83	-3.09	-2.61	-2.72	-2.89	-2.96	-3.10	-3.41
1539638	-1.07	-0.49	-0.58	1.49	1.26	1.20	0.26	0.26	0.14	-0.26	-0.38	-0.14	0.00	-0.14	-0.49
3015758	-1.49	-1.68	-2.77	4.54	3.86	2.94	-2.63	-2.63	-2.58	-2.58	-2.49	-3.23	-2.66	-3.25	-2.20
2832314	0.85	0.85	0.38	2.58	1.72	0.93	-0.14	0.00	-0.26	-0.26	-0.26	-0.38	-0.38	-0.14	-0.26
1702996	-0.38	0.00	-0.26	2.00	2.00	2.10	1.07	0.77	-0.49	-0.14	0.49	-0.49	-0.14	-0.38	-0.68
839947	0.14	-0.38	-1.26	2.38	1.63	2.10	-1.58	-1.32	-1.72	-0.68	-0.38	-0.68	-0.77	-0.85	-0.68
1867522	-3.29	-2.10	-4.61	4.66	4.18	3.50	-4.88	-4.94	-5.17	-3.94	-3.90	-5.26	-4.37	-5.05	-3.88
1987831	0.14	-0.14	0.14	1.54	1.32	1.43	-0.26	-0.14	x	-0.38	-0.68	-0.38	-0.58	-0.77	-0.85
2639708	-1.72	-2.20	-1.58	3.41	3.17	3.45	-2.63	-2.61	-3.02	-2.72	-2.98	-2.49	-2.91	-2.89	-2.61
973815	-1.63	-2.26	-1.43	3.12	3.15	3.77	-2.58	-2.72	-3.02	-3.12	-2.98	-3.22	-3.66	-3.60	-2.41
169884	2.23	1.81	1.00	3.69	3.57	3.81	-2.07	-2.17	x	-1.32	-1.72	-1.54	-1.38	-2.26	-1.43
2638235	1.85	1.68	1.63	1.85	1.63	2.23	-1.00	-1.07	-1.32	-0.38	-0.14	-1.14	-1.20	-1.00	0.00
305198	2.89	1.32	1.85	2.85	2.66	2.68	-1.43	-1.93	-2.26	-1.14	-1.54	-1.68	-2.07	-2.00	-1.07
57997	1.14	1.77	0.58	3.92	2.85	3.50	-0.68	-0.93	-1.32	-0.58	-0.14	-1.43	-1.54	-1.63	-1.20
986558	2.68	2.41	2.04	3.25	2.35	2.23	-0.93	-0.93	-1.26	-1.32	-0.77	-1.58	-1.49	-1.54	-1.38

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
224996	1.63	-0.26	-0.68	3.29	3.23	2.98	0.58	-0.26	-2.20	-0.26	-1.26	-1.20	-1.58	-1.20	-1.77
661259	1.49	1.63	1.14	2.54	1.07	1.26	-1.00	-0.85	-1.32	-0.58	-0.49	-1.00	-1.14	-0.93	-1.54
3246379	0.85	2.00	0.14	3.00	1.68	2.63	-1.00	-1.07	-1.68	-1.14	-1.26	-1.38	-1.26	-1.43	-1.43
78783	1.81	0.77	0.93	1.43	2.32	1.49	-0.26	-0.26	-0.38	-0.14	0.14	-0.77	-0.26	-0.38	-0.14
2639181	1.93	2.32	2.00	4.22	2.68	3.07	-4.95	-4.87	-4.92	-5.22	-5.50	-5.00	-4.69	-4.86	-5.02
1672467	2.35	2.17	2.17	3.02	3.28	3.29	-1.38	-1.43	-2.49	-2.00	-2.17	-1.96	-2.23	-2.43	-2.38
2950063	0.77	0.77	0.49	2.85	3.23	2.77	-2.70	-2.72	-2.74	-2.72	-3.28	-4.06	-3.87	-4.41	-2.51
3288518	-0.85	-0.77	-1.85	4.15	4.26	3.61	-4.18	-4.19	-4.67	-4.65	-4.98	-6.14	-5.37	-5.49	-3.80
184110	2.72	-0.26	2.20	2.89	2.96	3.12	-4.28	-4.19	-4.49	-3.09	-3.93	-5.09	-4.13	-4.43	-3.83
1368173	1.26	0.93	0.85	2.70	1.93	1.77	-1.14	-1.00	-0.77	-1.43	-1.58	-1.43	-1.58	-1.54	-1.32
1813409	1.32	1.32	1.07	2.87	2.00	2.10	-1.14	-1.43	-1.96	-0.26	0.38	-0.93	-1.00	-0.49	-1.43
58309	1.96	2.14	1.68	3.10	3.94	3.81	-4.02	-4.19	-4.11	-2.43	-2.74	-3.61	-3.62	-2.89	-3.31
1721744	1.85	1.89	1.54	2.17	2.00	1.49	0.14	0.49	-0.26	-0.77	-0.26	-0.85	-0.58	-0.77	-1.00
1924344	0.00	-0.14	-0.68	3.42	3.54	2.74	1.07	0.26	-1.26	-0.14	-1.00	-0.49	-1.00	-0.93	-1.81
3176845	-0.14	-0.58	-1.00	2.98	2.81	2.83	1.63	1.63	-0.49	0.38	-1.38	-0.49	-1.20	-0.85	-2.23
2286809	0.26	1.63	0.58	3.17	2.93	3.02	-2.32	-1.89	-1.85	-0.93	-1.54	-0.77	-1.81	-0.68	-2.38
1985244	1.26	0.26	0.00	3.52	2.66	2.63	-0.85	-0.77	-0.26	-0.77	-1.20	-0.85	-0.93	-0.38	-1.07
1570042	-0.14	0.26	-0.38	2.51	1.68	1.54	-0.85	-0.93	-1.07	-1.00	-1.32	-1.68	-1.20	-1.32	-1.14
2079906	-1.63	-1.07	-1.68	-1.20	-1.14	-1.32	2.10	2.14	0.58	0.77	-0.85	0.85	0.49	0.58	-0.38
2852042	-1.68	-1.54	-2.23	-1.49	-2.07	-2.20	2.93	2.68	0.14	1.49	-0.14	0.85	0.14	0.26	-0.85
1319020	2.07	1.43	0.77	0.68	0.26	0.00	2.04	2.07	0.93	0.00	-0.58	-1.07	-0.38	-0.49	-0.93
1572555	1.38	0.77	0.77	1.14	0.68	0.68	1.96	1.58	0.00	0.85	-0.68	1.00	0.26	0.77	-1.54
782235	-1.32	-1.32	-1.89	-1.58	-2.04	-1.32	3.23	2.70	1.68	0.14	-1.07	-1.07	-1.14	-0.58	-0.38
1314882	0.00	-0.26	-0.49	-0.58	-0.49	-0.68	2.61	2.66	1.72	0.49	-0.85	-0.26	-0.26	0.00	0.58
1403636	-1.00	-0.26	-0.93	0.77	0.14	0.49	1.81	1.85	1.58	1.00	-0.49	0.38	-0.14	0.00	-0.68
1968921	0.00	-0.26	-0.26	-0.26	-0.68	-0.26	1.58	1.77	1.38	0.26	-0.49	0.14	-0.26	0.14	-0.58
1558081	0.38	0.00	0.14	0.38	-0.58	-0.49	2.23	1.81	1.32	0.49	0.00	-0.49	-0.38	0.38	0.14
2495131	1.00	0.26	0.00	1.20	1.85	1.00	2.51	2.66	2.14	0.49	-0.58	0.00	-0.38	0.14	0.14
4049957	-1.68	-1.49	-2.98	-1.49	-2.46	-2.32	3.39	3.14	1.14	1.20	-0.38	0.85	0.00	0.26	-1.00
1686585	-1.14	-0.38	-0.77	0.58	0.26	0.26	2.07	2.43	2.07	0.26	0.14	-1.00	-0.93	-0.58	-1.96



Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2696735	-0.49	-1.07	-2.23	-1.77	-2.38	-2.38	3.22	2.81	-0.77	1.54	0.14	0.77	0.14	0.14	-2.56
1720149	-2.38	-1.38	-2.54	-1.85	-1.96	-2.04	2.77	2.79	0.49	1.32	0.00	1.32	1.07	0.77	-0.85
1866751	-2.23	-1.20	-2.49	-1.26	-1.20	-1.43	3.14	2.87	-0.49	2.10	0.14	1.96	1.20	1.20	-1.85
1851696	0.26	1.00	0.77	-0.38	-0.49	-0.49	2.04	2.79	1.00	1.14	0.26	1.32	0.77	1.38	1.54
93820	-1.77	-2.54	-2.14	-2.23	-1.85	-2.14	2.68	1.68	-1.68	-2.41	-2.43	-2.38	-2.26	-2.32	-2.29
2368282	-0.93	-1.14	-0.26	-0.68	-0.38	-0.58	-0.49	-0.77	3.64	-0.26	-0.93	-0.68	-0.85	-0.85	-0.58
2831248	0.00	0.00	0.00	0.00	0.00	-0.14	1.14	1.32	2.49	0.26	0.38	-0.26	-0.14	0.38	0.14
182802	-0.58	-0.68	-1.26	-0.58	-0.26	-0.93	-1.20	-1.07	3.54	0.00	-0.58	0.00	0.85	0.26	-1.07
1003884	0.14	0.26	0.49	-1.14	-0.26	-0.93	1.32	1.14	1.49	0.00	0.00	-0.14	0.14	0.38	0.77
1120	-0.38	0.00	0.14	0.49	0.38	0.38	0.58	1.14	2.23	0.14	0.14	-0.38	0.00	0.38	0.00
1308542	1.49	1.20	1.20	-0.49	-0.58	-0.68	-0.77	-1.07	1.32	0.49	0.14	-0.38	-0.68	-0.68	-0.26
3820761	0.58	0.00	1.07	0.77	-0.68	-0.38	1.54	1.43	2.23	0.14	-0.49	-0.77	-0.26	0.26	-0.38
1999167	0.14	0.26	-0.58	-1.77	-1.38	-1.81	1.20	1.49	1.38	0.38	-0.26	-0.38	0.00	0.00	-0.85
1522716	-0.14	0.00	-0.58	-0.14	-0.26	-0.49	2.07	2.04	3.04	0.14	0.14	-0.38	-0.58	0.14	0.38
1612969	-0.58	-0.77	-0.26	-0.77	-0.85	-0.85	0.26	-0.14	2.83	-0.68	-1.00	-1.00	-1.38	-1.00	-1.14
337500	-0.77	-0.68	-1.32	-0.85	-1.20	-1.26	1.07	1.38	2.54	0.49	0.58	0.14	0.14	0.58	-0.14
1285380	-0.68	-0.58	0.14	-0.58	-0.77	-0.68	-0.58	-0.58	-0.85	1.85	1.96	-0.14	-0.58	-0.49	0.14
1636639	0.77	0.49	0.93	-0.85	-0.38	-0.77	0.85	0.58	-0.68	1.49	2.46	0.49	0.49	0.49	0.00
1985870	-0.58	-0.58	-0.49	-0.68	-0.58	-0.85	-0.49	-0.58	-0.68	1.68	1.96	0.58	0.38	0.93	0.38
1677936	-5.83	-5.86	-5.13	-5.28	-4.60	-5.10	-5.38	-5.17	-5.33	3.82	3.64	-1.68	-5.19	-4.80	-4.85
910612	-4.84	-5.09	-3.51	-4.35	-3.98	-4.44	-4.75	-4.59	-4.54	3.89	3.67	-1.20	-5.17	-4.04	-4.45
2594407	-4.89	-5.01	-5.62	-4.76	-4.32	-4.56	-5.20	-5.08	-5.38	4.19	3.51	-1.26	-5.17	-4.45	-2.49
963536	-3.20	-2.96	-1.85	-2.74	-2.23	-2.70	-3.00	-3.12	-3.26	3.10	3.45	-1.32	-1.49	-2.10	-2.61
2252895	-0.93	-0.38	-2.14	-0.68	-0.14	-1.20	-1.54	-1.77	-1.81	3.12	3.38	1.85	1.72	1.72	-1.07
2804190	-0.58	-0.77	-0.49	-0.68	-0.49	-0.49	-0.68	-0.49	-0.49	2.00	1.58	1.26	1.63	1.14	-0.14
1998428	-2.74	-2.70	-2.46	-2.17	-1.32	-2.04	-2.46	-2.46	-2.38	3.00	3.26	0.38	1.07	0.85	-0.85
1800114	-2.20	-2.14	-2.32	-2.32	-1.38	-1.93	-1.85	-1.93	-2.04	1.58	1.26	0.85	1.54	1.81	-0.58
1806769	-1.68	-1.68	-2.29	-1.07	-0.68	-1.54	-1.81	-1.68	-1.54	2.04	2.35	0.38	1.63	1.96	0.68
2474163	-1.26	-1.07	-1.77	-0.26	-0.49	-1.00	-2.29	-2.00	-1.77	1.72	2.49	-1.93	-1.63	-2.04	-1.26
1435374	-2.41	-2.29	-3.04	-2.66	-2.23	-2.66	-2.63	-2.29	-1.49	1.14	1.38	0.58	0.85	1.20	0.26

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
434377	-0.14	-0.58	0.14	-0.26	0.26	-0.49	-0.38	-0.14	-1.00	-1.00	-1.20	1.68	2.00	2.32	0.77
2121863	-0.26	-0.26	-0.26	0.00	0.14	-0.58	1.14	0.85	-0.26	0.85	1.14	2.38	2.10	2.43	1.14
1597231	1.72	1.32	0.93	0.77	1.07	0.14	-1.38	-1.32	x	-0.38	-0.77	1.58	1.81	1.72	-0.85
4174437	-4.32	-4.47	-4.21	-3.47	-3.17	-3.47	-4.28	-3.74	-3.93	-1.89	-4.63	2.63	3.31	3.25	-3.07
2182901	-3.98	-4.10	-3.56	-3.02	-2.20	-3.22	-3.45	-3.25	-3.86	-1.89	-4.50	2.66	3.62	3.61	-3.09
1747979	-0.58	-0.49	-1.32	-0.77	-0.38	-0.68	0.26	0.14	-0.26	0.49	0.38	1.81	1.54	1.72	0.00
1630553	-1.14	-0.77	-1.54	-0.93	-0.85	-1.07	-1.20	-0.58	-1.96	-1.20	-1.63	3.12	2.98	3.00	-0.77
478960	-0.58	-0.85	-1.07	-0.49	-0.26	-0.58	-1.00	-0.77	-1.07	0.58	0.38	1.49	1.81	1.72	0.00
2132487	0.00	-0.58	-1.20	0.14	-0.14	-0.38	-0.77	-1.07	-1.00	0.49	-0.38	2.17	2.61	2.68	-0.38
2921152	-2.79	-3.04	-3.02	-2.81	-2.29	-2.68	-3.56	-3.19	-3.23	-2.49	-2.87	2.35	3.60	2.91	-2.93
1846428	-1.96	-1.77	-2.79	-0.77	-0.26	-0.68	-1.26	-1.38	-1.49	-1.77	-2.14	3.22	3.31	3.26	-1.20
2796143	-0.14	-0.93	-1.68	-1.43	-1.38	-1.77	-1.72	-1.89	-0.38	0.49	0.68	1.07	1.54	1.43	0.77
1805613	-0.38	-0.85	-1.85	0.00	0.14	-0.38	-0.85	-0.77	-0.85	0.00	-0.85	2.54	3.05	2.98	-0.49
1431273	-1.72	-1.96	-2.00	-1.85	-1.38	-2.26	-2.32	-2.56	-2.32	-1.38	-1.89	2.66	3.07	2.94	-1.68
1804662	-0.14	-0.49	-1.26	-0.77	-0.49	-1.00	-1.26	-1.14	-1.07	-0.38	-0.77	1.54	2.07	1.93	-1.58
2921194	-0.38	-0.14	0.00	-0.49	-0.85	-1.07	0.58	0.68	0.85	0.38	0.77	1.81	2.04	1.96	0.14
395368	-2.32	-2.23	-3.51	-2.14	-1.85	-2.10	-2.56	-2.49	-2.35	-1.38	-1.49	2.81	3.51	3.09	-1.54
2182861	0.14	0.00	-0.85	0.00	0.26	-0.14	-0.38	-0.26	-0.38	-0.26	-0.49	1.81	2.14	2.10	-0.58
1806436	-0.38	-1.07	-0.77	-1.26	-0.93	-1.00	-0.58	-0.38	x	-1.00	-1.07	1.89	2.14	1.81	-0.68
2922143	-1.68	-2.07	-3.32	-2.61	-2.43	-2.89	-3.36	-3.19	-3.56	-1.07	-1.96	2.63	3.39	3.41	-3.00
1696001	-0.26	-1.07	-0.77	-1.07	-1.20	-1.20	-1.49	-1.38	-1.77	-0.26	-1.00	2.38	2.81	2.26	-1.07
1635004	-2.41	-2.61	-3.55	-2.38	-1.77	-2.17	-2.96	-2.72	-2.61	1.32	0.93	2.68	3.10	3.09	-1.68
2132752	-2.10	-2.26	-3.68	-2.04	-1.07	-1.85	-2.07	-1.77	-1.38	1.54	2.32	2.29	3.09	3.38	-1.20
1734393	-2.91	-2.93	-3.23	-2.94	-2.00	-2.63	-3.29	-3.02	-2.58	1.32	0.58	2.17	2.72	2.72	-2.72
4179338	-3.46	-3.09	-4.82	-4.71	-4.26	-4.49	-4.97	-5.31	-5.16	-2.63	-4.98	2.26	3.26	2.56	-4.09
1427623	-1.54	-1.93	-2.04	-1.96	-1.32	-1.93	-2.23	-1.81	x	-0.38	-2.49	2.26	3.05	2.41	-1.89
3320987	-2.10	-2.17	-2.07	-2.00	-1.77	-2.29	-0.49	-0.38	-2.54	-2.35	-2.51	2.26	2.68	2.93	-2.46
2239819	-1.68	-1.77	-2.68	-1.20	-1.07	-1.26	-2.23	-2.14	-2.20	-1.72	-2.10	2.41	2.56	2.72	-1.85
876720	-0.68	-0.77	-1.07	-0.77	-0.77	-0.85	-0.77	-0.93	-1.00	-0.93	-1.07	-1.00	-0.58	-1.00	2.98
1910091	-0.14	-0.49	-0.93	0.00	-0.38	-0.38	-0.38	-0.49	-0.85	-0.68	-0.68	-0.49	-0.49	-0.58	1.85

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2174130	-0.49	0.00	-0.58	0.00	0.00	0.00	0.26	0.00	1.14	0.68	1.07	0.26	0.26	0.58	1.49
2219077	0.26	0.38	0.26	-0.49	-0.26	-0.38	-0.26	0.14	0.00	-0.14	-0.58	-0.14	-0.68	-0.58	1.43
1965041	0.93	0.85	0.93	0.14	0.85	0.00	0.38	0.77	-0.49	-0.77	-0.38	-1.07	-0.77	-0.85	1.77
1649959	-1.26	-1.20	-2.10	-0.77	-0.49	-0.68	-1.14	-1.20	-1.54	0.14	0.49	0.00	0.26	0.00	2.35
1222317	-0.26	-0.14	0.14	0.26	-0.26	-0.38	0.68	0.26	-1.07	0.14	0.00	0.00	-0.14	0.26	1.96
2510171	-1.68	-1.43	-0.26	-1.20	-0.77	-1.20	-1.63	-1.81	-1.85	0.14	0.00	-1.14	-1.32	-1.49	2.35
1988674	-1.32	-1.07	-1.54	-1.26	-0.58	-1.26	-0.85	-1.07	-1.20	-0.77	-0.68	-0.26	-0.68	-0.68	2.17
1672640	2.35	1.38	0.58	0.58	0.58	0.38	1.00	1.07	0.49	-0.14	-0.49	-0.77	-0.85	0.00	1.72
1749417	-1.72	-1.26	-1.77	-2.04	-1.93	-1.85	-0.58	-1.14	-0.85	-0.26	-0.14	-1.07	-0.58	-0.68	1.81
1926543	0.26	-0.14	-0.14	-0.58	-0.49	-0.77	-0.68	-0.93	-0.58	-0.26	-0.14	0.00	0.14	0.00	-0.14
1504934	-1.81	-1.89	-1.77	-1.38	-1.07	-1.58	-2.00	-1.81	-1.63	-1.89	-2.61	-2.35	-2.04	-2.46	-1.77
2512879	-1.68	-1.32	-1.14	-0.93	-0.93	-1.38	-1.00	-1.00	-1.20	0.00	0.14	-0.58	-0.38	0.00	0.14
1359832	-1.81	-1.32	-0.85	-1.54	-2.17	-1.81	-1.20	-1.14	-1.43	-0.26	-0.77	-1.32	-0.38	-0.38	-0.26
1583076	-1.58	-1.26	-0.77	-1.26	-1.72	-1.43	-1.26	-1.20	-1.43	0.49	0.26	-0.26	-0.14	0.14	-0.38
139838	-2.14	-2.32	-2.68	-2.43	-2.20	-2.87	-3.15	-3.36	-2.61	-2.14	-2.68	-3.17	-2.23	-2.74	-2.26
1344654	-1.54	-1.38	-0.68	-1.00	-0.85	-1.00	-1.00	-1.32	-1.20	-1.32	-1.32	-1.00	-1.43	-1.14	-0.26
2513979	-3.35	-3.52	-2.32	-2.38	-1.81	-2.63	-3.04	-2.77	-2.66	-2.38	-3.41	-3.41	-3.42	-3.19	-2.49
2369312	-3.05	-3.23	-3.20	-2.72	-1.89	-2.38	-2.87	-2.68	-1.20	-3.23	-2.63	-3.96	-3.56	-3.39	-0.58
2048364	-3.12	-3.17	-3.42	-2.61	-2.26	-2.66	-4.00	-3.71	-3.61	-3.09	-3.72	-3.57	-2.23	-3.32	-2.54
85246	-4.17	-4.22	-4.89	-4.26	-3.35	-3.95	-4.65	-4.50	-4.18	-3.61	-4.53	-4.99	-4.37	-4.80	-3.79
166337	-1.32	-1.68	-2.20	-1.00	-0.85	-1.20	-0.93	-1.20	-1.20	-0.85	-1.32	-1.72	-1.00	-1.58	-0.26
138274	-0.38	-0.58	-1.00	-0.26	-0.26	-0.38	-0.85	-0.68	-0.85	-0.77	-0.77	-0.93	-0.58	-0.85	-0.58
1633340	-1.20	-1.58	-0.58	-1.32	-1.43	-1.68	-1.68	-1.85	-1.77	-1.00	-1.58	0.49	0.58	0.49	-1.68
1982416	0.00	-0.68	-0.26	-1.07	-1.20	-1.38	-1.38	-1.96	-1.72	-0.49	-0.85	-0.68	-1.07	-0.68	-0.68
946822	-0.26	0.14	0.14	-0.14	-0.14	0.00	0.00	-0.49	0.26	-0.26	-0.58	-0.26	-0.14	0.00	-0.49
2517330	0.00	-0.26	0.14	-0.26	-0.85	-0.49	-0.68	-0.85	-0.85	-0.14	-0.38	0.26	0.14	0.14	-0.14
2516489	-0.14	-1.14	-1.20	-0.93	-0.58	-0.93	-1.20	-1.00	-1.20	-1.00	-1.20	-0.93	-0.85	-1.26	-0.49
88741	-1.26	-1.32	-1.14	-1.14	-1.26	-1.14	-1.81	-1.63	-1.32	-1.63	-2.17	-2.00	-1.49	-2.04	-1.20
168865	-1.43	-1.68	-1.68	-2.04	-1.77	-2.26	-2.63	-2.35	-2.54	-0.85	-0.77	-0.93	-1.32	-0.85	-1.49
231779	-0.93	-0.85	-1.00	-1.26	-0.77	-1.20	-0.68	-1.00	-0.77	-0.26	-0.49	0.38	0.00	0.14	-1.00

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
234123	0.14	-0.26	0.26	-0.93	-1.07	-1.07	-1.32	-1.26	-1.07	-0.49	-0.93	0.26	0.26	0.26	-0.85
1833801	0.58	-0.26	0.14	0.68	0.68	0.49	-0.14	-0.26	x	-0.14	0.68	0.77	0.93	1.07	0.00
1923613	0.14	-0.14	-0.38	0.26	0.26	0.00	-0.93	-1.07	-0.26	-0.38	-0.49	-1.07	-1.00	-1.00	0.14
2058620	0.77	0.38	0.93	1.07	0.38	0.14	-0.68	-0.38	0.00	-0.49	-0.77	-0.49	-0.68	-0.14	-0.93
1930954	0.58	-0.14	0.49	0.68	0.49	0.38	0.00	-0.26	x	0.00	0.00	0.38	0.38	0.38	-0.58
1511658	-4.14	-4.22	-4.73	-4.17	-3.78	-4.20	-4.55	-4.81	-4.56	-3.94	-2.74	-4.96	-4.56	-4.85	-4.44
2590673	-0.77	-1.00	-0.68	-1.00	-1.07	-1.32	-1.49	-1.43	-1.32	-0.26	-1.00	-1.49	-1.14	-1.58	-0.93
1995380	-1.49	-1.54	-0.93	-1.58	-1.38	-1.43	-1.07	-1.68	0.26	-0.14	-0.26	-0.38	-0.49	0.26	0.93
167409	-3.54	-3.75	-4.34	-3.31	-3.42	-3.63	-3.83	-3.84	-3.36	-1.81	-2.46	-4.39	-3.17	-3.69	-3.61
1846226	-1.54	-1.14	-1.32	-1.43	-1.07	-1.58	0.26	0.38	0.77	0.00	-0.14	0.14	0.38	0.68	-0.49
2052185	-3.02	-3.09	-4.51	-2.81	-2.41	-2.89	-3.31	-3.19	-3.42	-3.49	-3.94	-3.57	-2.85	-3.55	-3.28
2517389	-1.32	-1.81	-0.85	-1.32	-1.54	-1.72	-1.85	-1.93	-1.85	-1.32	-1.32	-1.54	-1.89	-1.72	-1.58
911015	-1.00	-1.20	-1.43	-0.77	-0.49	-0.77	-0.85	-1.00	-0.77	-0.49	-0.38	-0.38	-0.14	-0.14	0.00
604856	-1.14	-0.26	-0.58	-1.07	-0.77	-1.54	-1.26	-1.68	-1.32	-1.00	-0.14	-1.68	-1.85	-1.20	-0.58
1448718	-2.49	-2.10	-2.89	-1.72	-0.77	-2.32	-2.14	-1.43	-1.68	-0.68	-2.66	-2.58	-1.58	-2.04	-1.72
2517268	-1.07	-1.49	-1.68	-1.26	-1.38	-1.54	-2.07	-1.89	-2.10	-1.43	-1.54	-1.93	-1.81	-1.96	-1.68
167134	-0.49	-1.00	-1.26	-1.49	-1.68	-1.81	-2.41	-2.20	-2.38	-0.93	-1.14	-1.68	-1.43	-1.89	-1.96
2843638	0.26	-0.38	0.14	-0.58	-0.26	-0.38	-0.14	-0.14	0.77	0.00	0.00	-0.14	-0.26	-0.26	0.49
1813269	-1.81	-1.43	-2.00	-2.58	-1.85	-1.93	-0.14	-0.49	-2.10	-1.54	-2.38	-1.43	-1.00	-0.49	0.49
1861971	-4.31	-4.39	-4.51	-4.11	-3.86	-3.91	-4.55	-4.07	-4.36	-3.88	-4.02	-5.78	-4.69	-5.18	-3.34
2005973	-0.14	-1.14	-1.43	-1.72	-1.38	-1.00	-1.77	-1.77	-1.93	-0.26	0.00	-0.77	-0.58	0.26	-1.38
2515729	-2.58	-2.79	-2.10	-2.20	-2.10	-2.54	-2.85	-2.89	-3.23	-2.66	-2.58	-2.43	-2.74	-2.07	-2.32
2132356	-0.77	-0.77	-1.49	-0.26	0.00	-0.38	-0.85	-0.68	x	-0.68	-1.07	-1.14	-0.77	-0.93	-0.58
1001726	-0.38	-0.38	-0.77	-0.68	-0.26	-0.68	-0.38	-0.58	x	-0.77	-0.49	-1.00	-1.00	-1.32	0.38
2631845	-2.77	-2.35	-1.96	-1.96	-0.38	-2.07	-2.10	-2.46	-2.46	-1.38	-1.58	-2.00	-2.46	0.14	-0.38
86390	-0.85	-0.58	-1.89	-0.93	-0.14	-0.85	-0.68	-1.07	-0.77	-0.68	-0.77	-1.38	-1.20	-1.07	-0.26
1287840	-0.26	-0.14	0.38	-0.26	-0.38	-0.38	-0.26	-0.14	0.14	0.26	-0.14	0.38	0.49	0.49	-0.26
2516905	0.26	-0.49	-0.77	-0.38	-0.68	-0.58	-0.93	-1.14	-1.32	-0.49	-0.26	-0.49	-0.93	-0.77	-0.58
606122	-1.20	-1.43	-0.77	-1.20	-1.32	-1.43	-1.49	-1.77	-1.58	-0.68	-1.38	-0.85	-1.26	-1.20	-1.14
3553733	-0.85	-0.68	-2.20	-0.26	-0.38	-0.58	-1.49	-1.32	-1.54	-1.20	-0.68	-1.20	-0.85	-1.26	-0.58

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1813381	0.14	-1.20	-2.20	-1.77	-1.38	-1.81	-2.23	-2.17	-1.81	-2.20	-2.49	-2.70	-2.29	-2.83	-2.43
1988108	-1.58	-0.85	-1.00	-1.07	-0.85	-1.00	0.77	1.20	1.96	-0.38	-0.49	-0.68	-0.49	-0.26	0.00
1644648	-1.81	-1.81	-1.93	-1.38	-0.58	-1.20	-1.68	-1.49	1.32	-0.26	0.00	1.32	0.58	1.49	-1.07
2516104	-2.61	-2.94	-2.56	-2.23	-2.04	-2.10	-2.79	-2.77	-2.43	-2.32	-3.28	0.14	2.00	0.85	-2.58
2516448	-1.38	-1.43	-0.38	-0.58	-0.77	-0.38	-1.26	-1.26	-1.32	-1.63	-1.77	0.49	1.54	0.77	-1.07
2514507	-3.82	-3.36	-1.93	-1.72	-1.43	-1.89	-2.14	-2.26	-2.20	-2.46	-3.07	-0.68	0.77	0.68	-2.17
1427470	-0.68	-1.20	-0.68	-0.77	-1.07	-1.20	-1.14	-1.49	0.58	0.14	0.38	1.49	1.20	1.58	0.00
1311471	-1.49	-2.23	-2.20	-1.81	-0.77	-1.07	-1.14	-1.07	-1.32	-1.20	-1.63	0.49	0.93	1.00	-1.14
195142	-2.32	-2.51	-3.54	-2.07	-1.96	-2.17	-3.10	-2.66	-2.77	-0.38	-0.14	0.49	0.14	0.68	-2.56
29598	-3.63	-3.43	-4.39	-3.32	-2.20	-3.25	-3.14	-3.41	-2.35	-0.85	-0.68	1.00	1.26	1.32	-2.43
1968576	-1.43	-1.49	-1.49	-0.93	-1.14	-1.38	-1.49	-1.68	-1.38	0.00	0.00	1.58	1.14	1.07	0.38
2959255	-2.35	-1.93	-0.93	-1.20	-1.20	-1.26	-0.14	-0.14	0.68	-0.77	-1.43	1.26	1.20	1.58	-0.77
446969	-2.26	-2.29	-3.20	-3.02	-2.74	-2.81	-3.23	-3.22	-3.35	-1.43	-1.20	0.14	0.77	0.77	-0.85
1631511	-2.14	-2.20	-3.25	-2.23	-2.04	-2.35	-2.85	-2.58	-2.26	-1.14	-2.23	1.63	1.63	1.85	-1.14
1508741	-2.14	-2.38	-2.68	-2.10	-1.72	-2.20	-2.98	-2.96	-2.17	-2.41	-2.83	-3.55	-2.10	-3.10	0.14
2513602	-1.14	-1.49	-1.85	-1.43	-1.26	-1.58	-1.63	-1.77	-2.00	-1.93	-1.63	-1.72	-2.23	-2.29	-1.81
1981145	-1.20	-1.77	-1.20	-1.85	-1.07	-1.68	-1.43	-1.32	-1.63	-1.58	-1.63	-0.26	0.00	0.14	-1.68
2103752	-1.26	-1.07	-0.68	-1.63	-1.32	-1.77	-1.32	-1.43	0.14	-0.26	-0.58	0.38	0.00	0.14	0.38
2658782	-2.10	-2.14	-2.26	-2.58	-1.81	-2.66	-3.20	-2.91	x	-1.93	-2.14	-0.14	-0.49	0.00	-2.00
2099420	-1.00	-1.32	-1.00	-1.32	-1.26	-1.58	-1.85	-2.07	-2.07	-1.43	-1.72	-0.93	-1.20	-1.43	-1.14
637639	-2.04	-1.96	-1.77	-2.14	-1.43	-1.81	-2.04	-2.10	-1.96	-1.89	-1.93	-2.85	-1.96	-2.72	-1.07
279249	-2.29	-2.46	-2.43	-2.70	-2.58	-2.89	-3.29	-3.09	-2.81	-2.46	-3.12	-3.25	-2.56	-3.61	-2.85
1379063	-1.77	-1.93	-3.19	-1.58	-0.85	-1.68	-1.58	-1.63	-1.38	-0.93	-0.77	-0.77	-0.14	-0.26	-0.58
89747	-2.26	-2.49	-3.25	-2.72	-2.07	-2.41	-2.93	-2.98	-3.04	-2.54	-2.94	-2.98	-2.29	-3.22	-2.49
2515873	-1.49	-1.43	-2.10	-1.07	-1.26	-1.89	-1.54	-1.38	-1.54	-1.93	-1.96	-2.17	-1.89	-2.04	-2.07
1432372	-1.07	-1.38	-2.14	-1.32	-1.00	-1.26	-1.81	-1.72	-1.58	0.58	0.26	0.38	0.58	0.85	0.38
1633719	-2.51	-3.07	-2.81	-2.72	-2.23	-2.61	-3.09	-3.47	-3.05	-2.81	-2.49	-0.26	-0.38	-0.49	-2.43
1712663	-0.93	-1.26	-1.38	-1.43	-1.00	-1.26	-1.14	-1.38	-1.07	-0.85	-0.49	-1.07	-1.00	-1.54	0.00
4285203	-0.93	-0.93	-2.07	0.58	1.20	0.58	-0.77	-0.68	-1.54	-1.38	-1.07	-0.68	-0.58	-0.68	-0.77
1634342	-0.93	-0.77	-1.32	-1.20	-0.77	-1.58	-0.93	-0.58	-0.38	0.26	-0.38	0.26	0.93	0.77	0.00

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1418871	-0.77	-1.07	-0.58	-0.58	-0.38	-0.77	-0.93	-1.07	-1.26	-1.14	-0.93	-1.26	-1.07	-1.14	-0.38
3766382	-1.54	-1.07	-1.49	-1.43	-0.85	-1.43	-0.14	-0.26	-1.14	-0.38	-0.58	-0.38	-0.77	-0.58	-1.00
943181	-0.58	-0.85	-1.07	-0.77	-0.77	-0.77	-1.20	-1.20	-1.20	-1.07	-1.07	-1.26	-1.07	-1.32	-0.85
603761	-1.54	-1.54	-2.63	-1.49	-0.58	-1.68	-1.81	-1.93	x	-1.07	-1.68	-2.04	-1.81	-1.96	-1.32
1297562	0.14	0.00	0.49	-1.58	-0.58	-1.07	-0.14	0.93	-0.77	-1.38	-1.89	-1.96	-1.32	-1.81	0.93
2910715	-0.93	-1.43	-0.85	-1.00	-1.00	-1.14	-1.49	-1.26	-1.85	-0.26	0.58	-1.38	-1.26	-1.49	0.38
196975	0.49	0.38	0.00	-0.14	0.14	-0.26	-0.49	-0.26	x	0.00	0.00	-0.14	-0.14	0.00	-0.14
1453049	0.00	-0.68	-1.77	-0.68	-0.38	-1.07	-1.14	-1.00	x	0.93	1.07	0.14	0.38	0.38	0.85
1968695	-0.49	-1.00	-0.58	-0.93	-0.49	-0.49	0.00	-0.26	-0.38	-0.26	-0.49	1.14	1.00	1.58	0.00
958344	-3.12	-2.98	-2.35	-3.28	-2.74	-3.26	-3.86	-3.68	-3.68	-3.14	-3.29	-3.63	-3.67	-3.68	-3.42
2820985	-1.68	-1.72	-2.70	-1.85	-1.00	-2.07	-2.10	-2.14	-1.49	-0.68	-2.20	1.00	1.72	1.49	-1.93
1633393	-0.58	-1.00	-0.49	-1.63	-1.07	-1.54	-1.07	-1.14	-0.49	-0.77	-0.77	1.20	1.14	1.38	-0.77
1806451	-1.00	-1.26	-1.26	-0.49	-0.58	-0.77	-0.58	0.00	-1.14	-0.77	-0.85	1.54	1.00	1.72	-1.38
2674772	-2.61	-2.66	-3.34	-2.66	-1.77	-2.46	-2.74	-2.79	-2.68	-2.29	-2.14	0.93	0.85	1.14	-2.35
1376121	-1.32	-1.07	-1.14	-1.43	-1.00	-1.26	-1.68	-1.38	-1.26	-0.26	-0.38	-1.38	-1.63	-1.20	1.20
831794	-0.38	-0.58	-0.85	0.26	0.00	0.00	-1.54	-1.32	-1.58	-1.00	-1.32	-1.81	-1.63	-1.77	-1.00
1427681	-1.81	-1.89	-2.38	-1.85	-0.49	-1.58	-2.04	-1.68	-1.38	-2.00	-2.10	-2.56	-1.96	-2.07	-1.38
2912830	-2.74	-2.74	-2.89	-3.05	-1.77	-2.83	-3.50	-3.51	-2.23	-2.14	-2.77	-3.57	-2.77	-3.23	-2.83
504786	-1.81	-1.54	-2.14	-2.17	-1.32	-2.04	-2.38	-2.07	-2.38	-1.14	0.00	-2.43	-2.10	-2.04	-1.93
254081	-4.79	-4.94	-4.26	-4.38	-4.55	-4.51	-5.28	-5.28	-4.89	-4.94	-5.26	-5.93	-5.60	-6.02	-4.73
1330674	-3.60	-3.75	-4.04	-4.61	-3.77	-3.58	-4.28	-4.34	-4.68	-4.32	-4.25	-5.29	-4.38	-4.87	-3.52
2377834	-5.75	-5.97	-5.94	-4.49	-4.96	-5.05	-5.74	-5.57	-5.88	-6.13	-6.05	-6.26	-6.14	-6.31	-5.19
2075464	-4.33	-4.61	-3.75	-3.87	-3.31	-3.77	-4.12	-3.96	-4.41	-3.09	-2.41	-4.27	-4.13	-4.38	-3.88
2383235	-4.67	-4.87	-5.39	-4.49	-3.78	-3.68	-4.18	-4.34	-4.97	-4.93	-4.93	-5.76	-5.41	-5.76	-3.89
1285503	-1.43	-1.96	-2.63	-1.49	-0.85	-1.58	-2.07	-2.07	-1.89	-0.85	-1.81	-0.49	-0.26	-0.14	-0.58
2383205	-4.72	-4.93	-5.25	-4.34	-3.87	-4.28	-4.78	-4.69	-4.66	-4.78	-5.03	-5.41	-4.96	-5.29	-4.29
2015871	-5.04	-4.90	-2.89	-3.85	-3.09	-3.98	-4.15	-4.12	-4.36	-4.66	-4.98	-4.65	-5.10	-4.88	-4.22
2374046	-0.77	-0.93	0.49	-0.93	-1.26	-1.20	-1.32	-1.58	-1.49	-0.93	-1.20	-0.58	-0.93	-1.00	-0.58
1709828	-0.68	-0.58	-0.85	-1.07	-0.49	-0.85	-0.58	-0.58	0.85	0.58	0.49	0.38	0.68	0.49	0.49
2061119	0.49	0.26	0.49	1.07	1.26	0.93	1.32	1.32	1.54	0.49	-0.14	0.49	-0.14	0.58	-0.68

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
3665105	-2.41	-2.56	-4.06	-2.98	-2.87	-3.32	-3.45	-3.63	-3.75	-3.00	-3.25	-2.61	-2.66	-2.87	-3.00
2068983	-3.15	-3.34	-4.01	-3.38	-2.94	-3.09	-3.23	-3.36	-3.14	-2.70	-2.89	-3.14	-1.63	-2.17	-2.85
2242648	-3.02	-2.85	-2.43	-3.05	-2.77	-2.35	-3.05	-2.79	-3.02	-3.31	-3.19	-3.41	-3.00	-3.02	-2.72
885032	-2.00	-2.14	-1.26	-2.51	-1.85	-2.49	-2.58	-2.56	-2.85	-1.96	-1.77	-2.56	-2.04	-2.07	-2.54
2383830	-5.43	-5.44	-5.52	-4.50	-1.85	-4.12	-4.47	-4.74	-4.47	-4.29	-5.38	-5.48	-4.98	-5.38	-3.79
2085191	-6.27	-6.31	-5.57	-6.41	-5.71	-5.49	-6.36	-6.35	-6.11	-5.93	-6.41	-5.34	-5.04	-4.61	-5.96
2792982	-6.01	-5.87	-3.51	-5.27	-4.52	-4.69	-5.09	-5.16	-5.05	-4.81	-5.17	-3.92	-3.79	-3.29	-5.18
179929	1.38	2.20	1.20	-1.58	-1.89	-2.00	-1.93	-1.32	-1.89	0.68	0.93	0.77	1.26	1.43	-1.20
2741788	-1.58	-1.26	-1.07	-1.93	-1.58	-1.85	-0.26	0.00	0.93	-0.14	0.00	0.26	0.00	0.85	-1.81
2373608	-3.91	-4.35	-2.74	-2.83	-2.72	-3.43	-3.22	-3.09	-3.99	-0.77	-0.26	-2.29	-2.38	-2.14	-2.89
2182095	-3.43	-3.74	-2.61	-3.12	-2.61	-3.25	-3.45	-3.23	-4.02	0.38	-1.26	1.14	1.58	2.56	-3.35
2923150	-6.10	-6.51	-5.69	-5.68	-4.84	-5.13	-5.71	-5.82	-5.80	-1.81	-2.14	-2.46	-0.68	-0.68	-5.13
293495	-0.14	-1.32	-1.77	-2.49	-1.93	-2.41	-2.43	-3.05	-1.00	-1.00	-0.58	-2.04	-2.56	-2.17	-1.32
4284270	-1.20	-1.54	-2.23	-1.07	-0.85	-1.26	-1.49	-1.49	-1.77	-1.68	-1.77	-1.72	-1.54	-1.81	-0.85
958923	-0.77	-0.77	-1.00	-1.07	-0.77	-1.07	-0.58	-0.77	-0.58	-0.68	-0.68	-0.68	-1.07	-0.77	-0.26
1921393	-2.66	-2.72	-2.74	-2.87	-1.85	-2.87	-1.14	-1.20	-2.51	1.38	2.07	-2.00	-1.58	-1.54	-2.14
1447866	-0.38	-0.49	-0.38	-0.38	-0.38	0.00	0.00	-0.14	-0.38	0.49	0.77	0.14	0.49	0.38	0.68
1666737	-0.68	-1.00	-1.68	-0.68	-0.26	-0.49	-0.14	-0.38	-0.93	0.14	0.49	0.14	0.49	0.49	1.07
586245	-1.14	0.00	-1.32	-0.85	-0.58	-0.68	1.38	1.20	-0.68	-0.68	-0.49	-0.58	-0.49	0.00	-1.07
194162	-1.38	-1.38	-3.02	-1.72	-0.38	-1.26	-1.93	-1.72	-1.81	2.46	2.38	-0.77	0.93	2.20	-0.77
243123	-1.32	-1.20	-2.54	-1.63	-1.32	-1.32	-1.77	-1.63	-1.93	-1.26	-0.68	-1.49	-1.26	-1.32	-2.07
382416	-1.49	-0.68	-0.93	-0.93	-0.93	-0.93	-0.77	-0.77	-0.77	-1.54	-2.66	-3.04	-1.89	-2.26	-1.07
1852659	-1.58	-1.93	-0.58	-1.77	-1.77	-2.20	-1.96	-1.85	-2.17	-2.00	-2.29	-1.58	-1.68	-1.96	-1.72
3220181	-0.38	-0.93	-0.85	-0.68	-0.85	-1.00	-0.77	-0.38	-0.14	-0.14	-0.68	1.14	1.32	1.20	-1.00
1726307	-0.93	-1.14	-1.07	0.26	0.49	0.14	0.00	-0.38	0.14	-0.58	-0.14	-1.20	-0.77	-0.85	-0.77
1904244	0.00	-0.14	-0.49	0.14	0.26	0.00	-0.14	-0.49	0.26	-0.58	-0.49	-0.38	0.14	-0.49	-0.14
2039955	-1.00	-1.07	-1.68	-0.93	-0.49	-0.68	-1.20	-1.00	-1.26	-1.32	-1.00	-1.63	-0.77	-1.38	-0.85
2675641	-1.14	-0.68	-1.00	-1.77	-0.93	-1.43	-0.14	-0.38	-0.38	-0.26	-0.68	-0.77	-0.85	-0.93	-1.38
1412749	-0.14	-0.85	-0.14	-0.85	-0.93	-1.00	-1.14	-1.32	-1.54	-0.49	-0.38	-0.14	-0.58	-0.58	-0.93
1963854	-0.49	-0.58	-1.26	-1.00	-0.85	-1.26	0.00	0.14	-0.26	0.26	-0.14	0.68	0.49	1.07	-0.93

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B701S)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2949085	0.14	0.00	-0.38	-0.49	-0.77	-0.85	0.26	0.26	0.00	-0.49	-0.38	-0.93	-0.49	-0.77	-0.68
2963196	-0.68	-1.00	-2.00	-1.00	-1.00	-1.32	-1.58	-1.77	-1.89	-1.07	-1.49	-1.38	-1.49	-1.68	-2.14
1505977	-1.26	-1.00	-2.20	-1.77	-1.58	-1.68	-1.20	-0.68	-1.77	-1.20	-1.89	-2.49	-1.49	-2.38	-1.68
1674985	0.38	-0.14	0.26	-0.58	-0.68	-0.77	-0.58	-0.49	-0.38	-0.77	-1.00	-0.49	-0.49	-0.77	-0.77
2109054	0.58	0.68	-0.38	1.26	1.58	0.85	0.14	0.14	0.14	-0.58	-0.85	-1.43	-0.93	-1.43	-0.85
3317039	-0.49	-0.49	-1.43	-0.26	-0.26	-0.38	-0.38	-0.26	-0.14	-0.26	-0.38	-0.85	-0.58	-0.93	-0.77
2838551	-0.38	-0.68	-0.49	-0.68	-0.58	-0.68	-0.26	-0.58	-0.68	-0.58	-0.77	-0.49	-0.93	-0.77	-0.58
1477568	-0.26	-0.14	-0.49	-1.00	-0.58	-1.38	-1.00	-1.32	-1.77	-1.00	-1.14	-2.00	-1.81	-1.00	-1.77
2963871	-0.77	-0.49	-0.38	-0.68	-0.38	-0.77	0.49	0.68	0.00	-0.26	-0.26	-0.58	0.14	0.00	0.00
1740547	-1.07	-0.85	-1.00	-1.32	-1.07	-1.07	-1.00	-1.20	-1.26	-0.85	-0.93	-1.00	-0.77	-0.85	-1.00
2292011	-1.14	-1.32	-1.96	-1.96	-1.43	-2.04	-1.85	-1.49	-2.32	-1.38	-2.04	-2.54	-1.77	-2.46	-1.43
1349484	-0.14	0.00	-0.77	0.14	0.49	0.00	0.26	0.14	x	-0.58	-0.26	-0.49	-0.38	-0.26	0.00
1674253	-0.77	-0.68	-1.07	-0.68	-0.49	-0.68	-1.20	-1.07	-0.85	-0.85	-0.93	-0.85	-0.68	-0.77	0.38
1932189	-1.43	-1.81	-1.77	-2.20	-2.04	-2.46	-2.77	-2.68	-2.91	-1.72	-2.04	-2.10	-2.00	-2.00	-2.74
1403041	0.77	-0.26	-1.20	0.00	0.26	-0.68	0.14	-0.26	-0.93	-0.68	-0.85	-1.14	-0.85	-1.00	-0.38
1486358	-1.00	-1.00	-1.38	-1.77	-1.72	-2.23	-1.63	-1.20	-1.07	-1.32	-1.58	-1.89	-1.58	-1.43	-1.72
1439065	0.38	0.00	0.14	-0.38	-0.49	-0.14	-0.58	-0.49	x	-0.14	-0.38	-0.26	0.14	-0.26	0.00
530629	-0.26	-0.38	-1.72	-0.26	0.00	-0.38	-0.58	-0.93	x	-0.68	-1.00	-0.93	-0.14	-0.58	-0.14
1672676	-1.20	-1.07	-1.54	-1.81	-1.63	-1.58	-0.93	-0.85	-1.00	-1.32	-1.81	-1.89	-1.32	-1.68	-1.81
1989129	-1.00	-0.49	-1.43	-1.07	-0.85	-1.14	-0.38	-0.26	-0.58	-0.58	-0.38	-0.77	-0.58	-0.49	-0.68
1486348	-2.58	-2.17	-2.77	-1.00	-0.85	-1.58	-1.14	-1.00	-1.07	-1.68	-1.96	-1.81	-1.81	-1.81	-1.20
1397294	-0.58	-1.00	-1.63	-0.85	-0.26	-0.49	-1.00	-0.68	-1.43	-0.68	-0.49	-1.49	-1.07	-0.68	-0.26
2844322	-1.26	-0.68	-1.26	-1.32	-1.38	-1.49	-0.68	-0.77	-1.20	-1.26	-1.81	-1.85	-1.49	-1.85	-1.00
1481440	-0.93	-0.85	-2.10	-0.38	-0.26	-0.58	-1.07	-0.77	0.00	-1.07	-1.32	-1.20	-0.93	-1.20	-0.58
26459	0.14	-0.58	-0.14	-1.14	-1.43	-1.49	-1.68	-1.58	-1.63	-1.00	-1.20	-1.43	-1.49	-1.49	-1.00
1406786	-1.32	-1.00	-0.77	0.14	-0.26	-0.14	-0.14	-0.49	-0.38	-0.68	-0.58	-1.14	-0.93	-1.07	-0.58
1485846	-4.60	-4.04	-4.43	-4.69	-4.13	-4.34	-3.92	-4.04	-4.36	-4.25	-4.69	-4.26	-3.79	-4.02	-4.72
2153242	-1.68	-1.96	-1.93	-1.72	-1.26	-1.72	-1.85	-1.93	-2.10	-1.49	-1.54	-0.93	-1.20	-1.00	-1.26
2157981	-0.77	-1.85	-1.85	-2.00	-1.20	-1.81	-2.10	-1.07	-1.38	-1.49	-1.20	-2.07	-1.63	-1.93	-1.68
3244361	-1.00	-0.49	-1.26	-0.49	-0.38	-0.58	-0.68	-0.68	-1.00	-0.77	-0.85	-1.20	-0.85	-0.93	-1.00



Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1986737	-1.32	-0.49	-1.07	0.68	0.26	-0.14	-1.26	-0.77	-1.96	-1.63	-2.10	-1.54	-1.54	-1.20	-1.63
2506867	-2.38	-1.49	-3.04	-1.49	-1.00	-2.04	-2.07	-0.77	-0.49	-2.41	-2.61	-2.04	-1.58	-1.81	-2.07
1211682	1.38	0.85	0.68	-1.96	-1.54	-2.04	-1.81	-1.85	-1.14	-1.26	-1.43	-0.49	-0.38	-0.49	-2.10
1416354	2.10	0.49	1.32	-1.43	-0.93	-1.58	-1.00	-0.85	-1.43	-1.54	-1.63	-1.20	-1.00	-1.14	-1.38
2963962	1.20	0.77	0.68	-1.07	-0.38	-1.20	0.68	1.49	-0.38	-0.58	-0.93	-0.93	-0.85	-0.68	-1.43
1761086	0.14	0.14	-0.49	0.49	0.00	0.14	-1.93	-2.00	-2.26	-0.14	-0.26	0.68	0.93	0.93	-1.54
2588552	-0.77	-0.77	-2.29	1.00	0.26	0.38	-1.89	-1.89	-1.77	-0.49	-0.85	-1.85	-1.00	-1.77	1.20
1901271	-1.38	-1.00	-1.89	-2.63	-2.17	-2.07	-1.43	-1.43	-0.68	-0.93	-0.77	0.14	0.77	0.68	-0.68
1740924	-0.14	-0.58	-0.49	-0.68	-0.85	-0.85	-1.14	-1.26	-1.00	-0.58	-0.58	-0.68	-0.77	-1.20	-0.68
1480159	-1.68	-1.58	-2.04	-1.00	-0.93	-1.00	-1.93	-1.54	-1.77	-1.77	-1.63	-1.77	-1.20	-1.32	-1.38

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2380381	-0.93	-0.77	0.68	1.07	0.58	1.00	0.49	0.77	-1.00	-1.00	-1.26	-0.49	-0.77	-0.93	-1.07
1618422	-0.14	0.00	-1.38	-1.63	-1.14	-1.49	-1.38	-1.43	-0.49	-0.14	-0.14	-0.49	0.26	0.77	-0.49
2672064	0.14	0.26	-1.38	-1.32	-1.89	0.00	0.00	0.38	-1.77	-0.49	-1.32	0.00	0.58	0.14	0.14
608361	0.14	0.00	-0.38	-0.68	-0.14	-1.00	-0.77	-1.14	0.93	0.14	0.00	-0.26	-0.85	-1.14	-0.68
1922596	-1.93	-1.77	1.26	1.81	0.49	0.85	0.26	0.49	-1.58	-1.63	-2.10	-1.38	1.32	0.58	-0.14
1850033	-2.79	-2.38	-3.05	-2.66	-2.14	-2.51	-2.32	-2.77	-2.14	-2.26	-2.20	-2.23	-2.14	-2.83	-2.23
986987	-2.91	-2.51	-2.93	-2.85	-2.70	-2.91	-2.93	-3.07	-2.77	-3.00	-2.35	-2.38	-3.15	-3.38	-2.72
718807	-1.58	-1.54	-1.32	-2.07	-1.58	-2.49	-1.93	-2.10	-0.58	-1.81	-1.38	-1.77	0.49	0.26	0.38
2880435	-0.49	-0.58	-0.68	-0.77	-0.49	-0.14	-0.26	0.00	-0.58	-0.68	0.00	-0.14	-0.38	0.26	0.26
187326	-2.85	-2.91	-2.43	-2.66	-2.72	-3.00	-3.75	-2.83	-2.32	-2.56	-2.89	-2.49	-3.22	-3.25	-2.20
1997963	-1.68	-1.63	-2.32	-1.58	-2.04	0.00	-0.77	-0.49	-1.68	-2.58	-2.63	-1.89	-0.26	-1.00	-1.14
467700	-2.07	-2.54	-2.43	-2.38	-2.14	-2.41	-2.35	-2.41	-1.96	-2.29	-2.07	-1.81	-3.17	-2.61	-1.89
57382	-3.57	-3.51	-3.51	-3.45	-3.20	-1.63	-2.43	-2.20	-3.19	-3.66	-3.12	-3.29	-1.43	-2.14	-1.85
1222442	-2.04	-1.77	-0.68	0.26	0.49	0.93	0.38	0.68	-1.26	-1.32	-1.58	-1.00	0.14	-0.58	-0.77
4013105	-3.05	-2.81	-3.25	-3.15	-2.85	-0.26	-1.20	-0.85	-2.83	-1.38	-2.68	-0.93	-0.58	-1.32	-1.81
924319	-0.68	-2.51	-4.03	-4.03	-3.39	-4.17	-4.19	-4.38	-3.68	-3.96	-3.69	-3.68	-4.45	-4.63	-4.08
1645119	-1.38	-1.38	-0.77	-0.68	-0.68	-0.85	-0.77	-1.00	-1.00	-1.26	-1.07	-0.85	-0.38	-1.20	-0.93
1379925	-2.29	-2.17	-1.93	-1.81	-1.72	-1.58	-1.58	-1.96	-2.10	-0.93	-1.68	-1.54	-1.54	-2.14	-1.43
1900961	-2.46	-2.56	-2.29	-2.00	-1.93	-1.85	-1.96	-1.81	-1.96	-2.70	-1.89	-1.89	-1.85	-2.29	-2.58
3506985	-0.68	-0.58	-1.93	-1.63	-2.54	-2.54	-2.77	-2.43	-2.43	0.85	0.14	2.77	-3.12	-3.45	-2.49
551403	-1.58	-1.58	-1.43	-2.23	-1.26	-1.20	-1.77	-1.81	-0.26	-2.00	-1.43	-1.81	1.38	1.00	0.68
3948420	-1.49	-1.93	-2.81	-2.94	-2.74	-1.54	-2.17	-2.23	-0.49	-2.87	-2.23	-2.61	1.38	1.26	0.85
1722853	-0.38	-0.26	-1.20	-0.26	-1.14	-0.38	-0.38	-0.14	-1.26	-1.58	-1.32	-1.49	-0.38	-0.26	-0.26
1557490	-1.85	-1.77	-2.85	-2.23	-2.81	-1.07	-1.32	-1.00	-1.93	-0.58	-1.68	-0.58	1.58	1.20	0.38
3208425	-1.32	-1.32	-2.23	-2.14	-1.89	-0.26	-0.77	-0.14	-1.77	-1.93	-2.46	-1.20	0.68	0.38	-0.49
1668474	-1.89	-1.58	-1.68	-1.68	-1.58	-2.14	-1.72	-1.77	-1.20	-1.54	-1.14	-1.20	-0.68	-1.26	-0.93
1622542	-0.85	-1.14	-0.85	-1.32	-1.20	-1.07	-0.58	-1.32	-0.77	-0.38	0.14	-0.49	1.00	1.07	0.49
4014318	-0.85	-0.68	-0.85	-0.49	-0.26	-0.68	-0.93	-0.68	-0.26	0.00	-0.58	0.14	-1.20	-1.49	-0.49
2394888	-0.77	-0.38	-0.14	0.14	-1.20	0.77	-0.38	-0.26	-1.81	-1.07	-1.07	-1.43	0.68	0.68	1.07
1345550	-3.17	-4.25	-3.83	-4.33	-4.10	-4.68	-4.63	-4.57	-4.39	-4.19	-4.04	-3.35	-4.71	-4.69	-3.69

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1719955	-1.54	-1.49	-1.77	-1.54	-0.77	-1.14	-1.32	-0.85	-3.10	-2.83	-3.12	-2.29	-0.49	-1.14	-1.26
2256026	-1.14	-1.20	-0.85	-1.14	-0.14	-1.38	-1.20	-0.85	-0.26	-0.68	-0.93	-0.38	-1.20	-1.20	-0.68
1538086	-1.32	-1.43	1.26	1.14	1.20	-0.14	0.14	-0.26	0.00	-1.20	-1.00	-1.00	0.00	-0.14	-0.68
958633	-0.38	-0.26	-0.77	-0.38	-0.58	0.14	0.14	0.49	0.49	-0.77	-0.58	-0.38	0.49	-0.26	-0.14
2635943	-3.87	-3.41	-3.60	-3.23	-3.20	-3.74	-3.86	-3.28	-3.74	-3.52	-3.31	-3.26	-2.93	-3.39	-2.66
121888	-4.15	-4.26	-3.83	-3.81	-3.15	-4.05	-4.01	-3.94	-3.78	-3.54	-3.93	-4.04	-3.31	-4.38	-3.91
1627492	-0.77	-0.68	-0.93	-1.07	-1.20	-0.26	-0.58	0.00	-1.00	-1.07	-1.26	-0.38	0.26	-0.26	-0.26
4073867	-1.00	-1.07	1.26	1.49	1.93	1.32	0.49	0.58	-0.49	-0.58	-0.93	-0.14	-0.77	-1.07	-0.38
2190170	-0.38	0.00	-1.14	-0.68	-0.58	0.14	-0.26	0.00	-0.77	-0.38	-0.58	0.38	0.38	0.00	0.38
972224	-4.20	-4.10	-4.26	-4.05	-3.93	-3.80	-4.39	-4.26	-4.39	-3.87	-4.34	-3.85	-4.71	-5.00	-3.80
1413644	-2.35	-1.89	-2.17	-2.04	-2.46	-1.49	-2.17	-1.43	-2.10	-2.20	-1.63	-1.58	1.43	0.68	-0.58
1538224	0.26	-0.14	0.00	-0.26	0.14	-0.14	-0.38	0.38	-0.58	-0.93	-0.58	-0.38	-0.38	-0.49	-0.26
2623268	-1.32	-0.85	-2.29	-1.93	-1.81	-0.58	-1.20	-0.38	-2.14	-1.26	-1.49	-0.93	0.49	-0.26	-0.38
1665533	0.00	0.14	-1.07	-0.49	-1.00	0.00	-0.26	0.26	-0.49	-0.26	-0.49	0.26	-0.38	-0.77	-0.14
981484	-1.26	-1.07	-1.26	-1.26	-0.68	-1.14	-1.00	-1.32	-0.77	-0.85	-0.77	-1.20	-0.77	-0.85	-0.38
973629	-3.31	-3.32	-3.70	-3.35	-3.35	-3.25	-3.49	-3.26	-3.32	-2.66	-3.42	-2.51	-3.20	-4.17	-2.85
1539638	-0.38	-0.38	-1.77	-1.49	-1.54	-0.14	-0.58	-0.26	-1.58	-1.00	-1.26	-0.58	-0.14	-0.58	-0.58
3015758	-3.22	-3.25	-2.83	-2.85	-2.51	-3.22	-3.12	-3.47	-1.77	-2.72	-2.68	-2.10	-3.20	-3.55	-2.35
2832314	-0.14	0.14	-2.70	-2.96	-2.91	0.85	0.49	1.00	-2.14	-0.58	-1.00	-0.26	1.43	0.93	0.58
1702996	-0.77	-0.58	-1.58	-1.26	-1.43	-0.58	-1.20	-0.58	-0.93	-1.32	-1.72	-0.58	-0.38	-0.77	-0.49
839947	-0.58	-0.49	-0.49	-0.85	-0.58	-1.00	-0.58	-0.93	-0.77	-0.49	-0.58	-0.68	0.14	0.00	0.14
1867522	-4.10	-4.34	-3.61	-3.78	-3.91	-4.43	-4.30	-4.25	-4.59	-3.86	-4.21	-4.21	-3.80	-4.64	-3.64
1987831	-0.68	-0.58	-1.14	-1.49	-1.00	-1.20	-0.77	-0.93	x	-0.58	-0.38	-0.49	1.54	1.32	0.26
2639708	-3.31	-3.17	-3.32	-2.98	-3.04	-3.32	-3.12	-3.34	-2.72	-2.94	-2.70	-2.63	-2.70	-3.52	-2.72
973815	-3.93	-3.90	-4.11	-4.15	-3.56	-4.03	-3.75	-4.36	-3.51	-2.81	-3.96	-3.47	-3.42	-4.02	-2.79
169884	-2.14	-2.43	-1.63	-1.72	-1.54	-2.43	-2.41	-2.56	x	-1.77	-1.54	-1.54	-1.32	-1.43	-0.85
2638235	-0.68	-0.58	-1.20	-1.26	-0.93	-0.93	-0.77	-1.07	-0.93	-1.72	-1.20	-1.14	-1.20	-1.49	-1.68
305198	-2.14	-2.26	-2.00	-2.07	-1.77	-2.14	-2.41	-2.35	-1.72	-1.43	-2.14	-1.96	-2.07	-1.89	-1.07
57997	-1.96	-2.04	-1.58	-1.77	-1.26	-1.58	-1.77	-1.49	-0.93	-1.68	-1.38	-1.32	-2.10	-2.04	-1.07
986558	-2.35	-2.38	-2.32	-2.38	-2.00	-1.26	-1.85	-1.89	-2.04	-1.81	-2.29	-2.07	-1.20	-1.72	-1.07

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (39711)
224996	-1.43	-1.77	-3.10	-3.15	-3.58	-3.35	-3.17	-3.04	-3.25	-2.58	-2.98	-2.41	-1.81	-2.32	-2.14
661259	-1.68	-1.32	0.93	1.32	1.07	0.68	0.00	0.49	-1.89	-1.58	-2.23	-1.07	0.49	-0.26	-0.68
3246379	-1.81	-1.49	-1.96	-1.54	-1.81	-1.49	-1.93	-1.68	-1.81	-1.38	-1.63	-1.26	0.26	0.14	-0.38
78783	0.00	0.00	-1.77	-1.77	-2.46	-0.49	-0.93	-0.14	-1.85	0.00	-1.81	0.14	-1.93	-2.26	-2.14
2639181	-5.27	-5.41	-5.12	-5.06	-5.04	-5.36	-5.79	-5.54	-4.95	-5.07	-4.82	-4.24	-5.57	-5.87	-5.19
1672467	-2.93	-3.09	-0.38	-2.10	-1.72	-2.41	-2.96	-2.94	-1.72	-2.61	-2.63	-2.51	-2.63	-2.83	-2.04
2950063	-3.94	-3.72	-3.87	-3.60	-2.29	-4.39	-4.30	-4.06	-3.41	-3.79	-3.57	-3.57	-4.15	-4.45	-3.38
3288518	-5.54	-5.37	-5.36	-5.26	-5.09	-5.02	-5.06	-4.98	-5.36	-4.78	-4.97	-4.64	-5.71	-5.88	-5.46
184110	-4.13	-3.94	-4.13	-3.61	-4.76	-5.22	-5.50	-4.84	-4.69	-3.75	-4.60	-4.15	-5.61	-5.95	-3.92
1368173	-2.26	-1.77	-3.02	-2.56	-2.43	-0.49	-0.93	-0.85	-2.41	-1.93	-2.23	-2.07	0.00	-0.38	-0.58
1813409	-1.85	-1.43	-1.14	-0.14	-1.72	1.20	0.26	0.68	-0.26	-1.72	-2.17	-1.14	-1.20	-1.49	-1.07
58309	-3.56	-3.38	-3.56	-3.15	-2.46	-2.94	-2.68	-3.51	-3.42	-3.19	-3.83	-3.34	-3.81	-3.68	-3.02
1721744	-0.85	-0.49	-0.58	-0.38	-0.93	-0.93	-1.26	-0.58	0.38	-1.54	-1.58	-0.77	0.26	0.14	0.00
1924344	-1.81	-2.29	-2.10	-2.14	-2.14	-2.61	-3.00	-2.66	-2.38	-1.63	-1.93	-0.85	-2.74	-2.66	-1.68
3176845	-2.66	-2.61	-4.17	-3.88	-3.77	-3.04	-3.39	-2.61	-3.81	-2.87	-3.25	-2.72	-3.58	-3.78	-2.72
2286809	-3.12	-3.07	-0.14	0.26	0.85	1.49	0.58	1.54	-1.85	-2.49	-2.77	-2.38	-0.14	-1.00	0.26
1985244	-1.20	-1.07	0.00	0.85	0.68	-0.14	-0.68	-0.26	1.54	-1.77	-2.35	-1.38	-0.85	-1.38	-1.14
1570042	-1.58	-1.20	-1.07	-1.26	-1.00	-1.38	-1.54	-1.26	-1.00	-0.85	-0.77	-0.38	1.77	1.07	0.49
2079906	-0.68	-0.68	-1.38	-1.00	-1.07	-1.07	-1.38	-0.77	-2.00	-1.20	-1.26	-0.38	-1.20	-1.26	-1.00
2852042	-0.49	-0.77	-2.58	-2.72	-2.49	-1.00	-1.89	-1.54	-1.85	-1.43	-2.07	-0.49	-0.14	-0.14	0.58
1319020	-0.58	-0.58	-2.41	-2.04	-2.54	-0.26	-1.32	-0.14	-1.93	-1.63	-1.58	-1.20	-1.00	-1.00	-1.20
1572555	-1.43	-2.07	-3.42	-3.23	-3.78	-1.68	-2.56	-1.20	-2.04	-2.20	-2.79	-1.58	-2.74	-3.09	-2.58
782235	0.38	-0.93	-2.14	-2.89	-2.51	-1.93	-2.94	-0.14	-2.38	-1.68	-2.10	-1.26	-3.51	-2.89	-2.46
1314882	-0.77	0.38	-2.43	-2.43	-2.77	-1.93	-2.49	-0.77	-2.20	-1.54	-2.38	-0.93	-3.00	-3.09	-2.20
1403636	-0.38	-0.38	-2.54	-2.54	-2.17	-1.77	-2.07	-1.68	-2.23	-1.07	-1.38	-0.38	0.14	-0.38	-0.14
1968921	-0.38	-0.38	-1.07	-1.07	-0.85	-0.38	-0.58	0.14	-0.93	0.00	-0.26	0.14	-0.49	-0.77	-0.93
1558081	0.26	0.00	-2.14	-1.77	-2.04	0.00	-1.43	-0.14	-1.43	-1.20	-1.26	-0.93	-2.00	-2.00	-1.81
2495131	0.14	0.58	-1.63	-1.49	-2.23	-1.58	-1.85	-1.14	-2.54	-1.14	-1.38	-0.58	-0.26	-1.14	-1.00
4049957	-1.14	-1.54	-3.56	-3.90	-4.34	-1.72	-3.05	-1.32	-3.63	-2.72	-2.70	-1.26	-3.10	-3.15	-3.04
1686585	-2.26	-2.10	-2.87	-2.41	-3.20	1.00	0.49	0.93	-2.07	-2.00	-2.96	-1.07	-1.81	-1.96	-1.14

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2696735	-2.74	-2.56	-3.25	-3.09	-3.05	-2.56	-2.96	-2.58	-2.58	-2.81	-2.94	-2.04	-2.87	-3.35	-2.58
1720149	-0.85	-0.85	-1.72	-1.63	-1.89	-1.14	-1.63	-0.68	-2.51	-1.32	-2.35	-0.38	-1.58	-1.96	-1.63
1866751	-1.32	-2.10	-3.15	-2.81	-3.00	-1.85	-2.79	-2.32	-2.74	-2.00	-2.54	-1.32	-3.09	-3.05	-2.58
1851696	1.43	1.54	-1.20	-1.43	-1.85	-1.26	-1.68	-0.93	-2.07	-2.43	-2.38	-1.96	-1.77	-1.89	-1.20
93820	-3.28	-3.17	-2.54	-2.61	-2.43	0.68	-0.58	-0.49	-2.51	-2.87	-2.54	-2.26	2.07	0.38	2.98
2368282	-0.93	-0.93	-0.77	-0.93	-0.49	-1.07	-1.00	-1.14	-0.58	-0.38	-0.49	-0.68	-1.14	-1.14	-0.77
2831248	0.77	0.58	-0.85	-0.77	-1.00	0.38	0.38	0.26	0.26	0.26	0.00	0.38	-0.49	-0.58	-0.77
182802	-1.49	-1.20	-0.85	-1.07	-1.14	-1.14	-1.14	-0.77	-0.85	-1.38	-1.38	-1.49	-1.32	-1.49	-0.68
1003884	0.77	0.14	-1.77	-1.38	-2.00	1.00	0.38	0.93	-1.00	-0.38	-1.14	-0.26	-2.07	-2.00	-1.81
1120	0.00	0.14	-0.26	-0.14	-0.26	0.26	0.38	0.49	1.43	0.38	0.38	0.68	-0.77	-0.93	-0.68
1308542	-0.85	-0.68	-0.14	0.58	0.26	-0.77	-0.77	-1.14	0.68	-0.58	-0.38	-0.93	-0.77	-0.93	-0.58
3820761	-0.14	0.38	-2.23	-1.38	-2.98	-0.58	-0.58	0.00	-1.89	-3.39	-3.45	-3.12	-2.58	-2.91	-2.56
1999167	-0.26	0.00	0.58	1.26	0.38	0.93	0.26	1.38	-1.68	-0.38	-1.38	-0.58	-2.20	-2.23	-2.23
1522716	0.00	0.38	-2.74	-2.94	-3.28	-1.14	-1.38	-0.26	-1.81	0.14	-1.07	1.14	-1.81	-1.68	-1.32
1612969	-1.14	-1.20	-0.93	-0.77	-1.07	-0.93	-1.32	-0.58	1.20	-0.85	-1.14	-0.58	-0.49	-0.77	-0.77
337500	0.00	0.14	-0.49	0.00	0.14	0.38	0.26	0.68	1.72	0.77	-0.14	0.93	-0.49	-0.85	-0.68
1285380	0.00	0.14	-0.77	-0.77	-0.38	-0.49	-0.49	-0.38	-0.49	-0.14	0.00	0.38	-0.38	-0.49	-0.26
1636639	-0.14	-0.14	-0.85	-1.26	-1.00	-1.43	-1.38	-1.07	1.14	-0.77	-1.14	-0.58	-0.68	-0.77	-1.00
1985870	0.38	0.68	-0.68	-1.07	-0.58	-0.85	-1.26	-0.68	-0.85	1.14	0.49	1.54	-0.85	-0.68	-0.14
1677936	-5.60	-6.02	-5.46	-5.53	-5.44	-6.07	-6.43	-6.18	-5.26	-5.56	-5.26	-4.40	-6.37	-6.64	-5.63
910612	-5.26	-5.38	-5.80	-5.43	-5.10	-5.36	-5.55	-5.99	-5.03	-4.76	-5.30	-4.75	-5.48	-6.28	-5.02
2594407	-2.77	-3.89	-5.50	-4.83	-5.13	-5.07	-5.31	-5.01	-5.10	-4.97	-5.41	-4.45	-5.50	-5.77	-5.31
963536	-3.41	-3.49	-2.96	-3.43	-2.89	-3.72	-3.49	-3.51	-3.22	-3.04	-3.29	-3.09	-3.43	-3.68	-3.04
2252895	-2.07	-2.35	-1.58	-2.17	-1.85	-1.26	-1.54	-1.77	-1.63	-1.85	-1.63	-1.32	-2.00	-2.26	-1.20
2804190	-0.58	-0.14	-0.93	-1.14	-0.68	-0.93	-0.85	-0.68	-0.68	-0.38	-0.14	-0.26	-0.49	-1.00	-0.14
1998428	-0.49	-0.26	-2.51	-2.79	-2.00	-2.77	-2.58	-2.51	-1.81	-2.66	-2.51	-2.43	-3.50	-3.51	-2.93
1800114	0.38	-0.26	-1.58	-1.63	-1.72	0.26	-0.93	0.85	-2.04	-1.38	-1.14	-1.54	-2.14	-1.93	-1.93
1806769	1.14	1.54	-1.85	-1.72	-2.00	-1.93	-1.81	-1.96	-0.77	-2.56	-1.96	-2.29	-2.43	-2.98	-1.77
2474163	-1.43	-1.00	-1.14	0.49	-0.26	0.85	0.68	1.20	-1.07	-2.10	-2.04	-1.68	0.00	-0.49	0.26
1435374	0.93	0.14	1.32	1.20	-0.38	0.77	-0.58	0.85	0.93	-1.89	-2.35	-1.96	-3.50	-3.74	-2.56

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
434377	0.93	1.14	-1.00	-1.26	-1.20	-1.26	-1.26	-1.43	-1.72	0.00	0.14	1.81	-1.96	-2.07	-1.63
2121863	0.38	0.49	-1.77	-2.20	-1.72	-0.38	-0.85	-0.58	-2.14	-0.38	-1.07	-0.38	-2.26	-2.29	-1.63
1597231	-1.58	-1.26	0.93	2.04	1.32	-0.93	-1.43	-1.20	x	-1.77	-1.38	-1.00	-0.14	-0.26	0.14
4174437	-4.55	-3.55	-4.21	-4.49	-4.32	-4.77	-5.10	-4.79	-4.60	-3.84	-4.32	-2.54	-4.55	-4.84	-4.47
2182901	-4.47	-3.99	-4.10	-4.31	-3.96	-4.41	-4.90	-4.57	-4.35	-3.94	-4.48	-3.15	-4.46	-4.65	-4.08
1747979	-0.14	-0.14	-0.58	-0.68	-0.58	-0.49	-0.93	-0.26	-0.26	1.49	1.20	1.43	0.26	0.00	0.00
1630553	-0.58	0.14	-1.38	-1.68	-1.63	-1.20	-1.68	-0.68	-1.26	-1.85	-1.89	-1.20	-1.38	-1.49	-1.00
478960	-0.38	0.14	-1.00	-0.77	-0.68	0.49	0.14	0.85	0.85	-1.07	-0.77	-0.68	-1.26	-1.49	-0.77
2132487	-0.58	-0.68	-0.14	-0.26	-0.26	-0.93	-1.20	-1.07	0.58	-0.68	-0.38	-0.58	-0.77	-0.77	-0.26
2921152	-3.46	-3.00	-3.34	-3.32	-2.94	-3.79	-3.19	-3.61	-3.34	-3.64	-3.50	-3.52	-3.02	-3.55	-2.43
1846428	-1.96	-1.32	-1.38	-1.07	-1.14	-1.54	-1.89	-1.49	-1.43	-2.43	-2.14	-1.58	-2.10	-2.35	-2.04
2796143	0.85	0.85	-1.77	-1.85	-1.72	1.14	1.00	1.26	0.68	-0.49	-0.85	-0.14	0.14	-0.38	-0.26
1805613	-0.93	-0.85	-0.77	-0.93	-0.85	-1.14	-1.43	-1.43	-0.93	-1.07	-0.85	-0.38	-0.77	-1.38	-0.68
1431273	-2.43	-2.32	-2.79	-2.32	-2.00	-2.38	-2.35	-3.09	-1.72	-2.07	-2.14	-2.00	-2.35	-2.63	-1.68
1804662	-1.26	-1.14	0.49	1.32	0.38	0.26	-0.26	0.38	-0.77	-0.85	-1.14	-1.14	-1.07	-1.20	-0.77
2921194	0.14	0.68	-2.35	-2.41	-2.26	-0.58	-0.85	-0.58	-1.85	-1.20	-1.49	-0.68	-1.81	-2.14	-1.68
395368	-1.54	-2.04	-2.41	-2.56	-2.20	0.00	-0.49	-0.26	-2.26	-1.96	-1.85	-0.93	-2.96	-3.09	-2.10
2182861	-0.77	-0.58	-0.68	-0.26	0.00	-0.58	-0.49	-0.26	-0.26	-0.49	-0.58	-0.14	-0.58	-0.85	-0.49
1806436	-1.43	-1.58	0.26	0.38	0.26	0.14	0.00	0.77	x	-0.93	-0.58	-0.68	-0.85	-0.49	-0.26
2922143	-2.89	-2.91	-2.46	-2.58	-2.51	-3.32	-2.79	-3.12	-2.89	-2.58	-2.91	-2.91	-2.94	-2.72	-1.26
1696001	-1.43	-1.32	-0.58	-0.85	0.14	0.00	-0.49	0.14	-0.38	-1.07	-0.77	-0.93	-1.00	-1.26	-0.85
1635004	-3.10	-2.83	-1.20	-1.63	-2.14	-3.17	-3.46	-3.17	-1.68	-2.77	-0.26	-2.63	-3.14	-3.19	-2.41
2132752	-1.38	-2.32	-2.26	-2.58	-2.32	-1.58	-1.89	-2.00	-1.89	-1.89	-2.35	-1.38	-3.02	-3.09	-1.38
1734393	-3.26	-3.28	-2.81	-3.23	-2.56	-3.71	-3.05	-3.35	-2.07	-3.68	-2.41	-2.91	-3.29	-2.20	-3.09
4179338	-4.94	-4.93	2.20	3.09	2.49	-5.26	-4.60	-4.98	-4.79	-4.93	-5.09	-4.34	-4.63	-5.15	-4.27
1427623	-2.68	-2.49	1.20	2.04	1.26	-1.32	-1.63	-1.20	x	-2.49	-1.63	-2.38	-2.35	-2.56	-1.58
3320987	-2.26	-2.77	-1.63	-1.14	-1.49	1.32	0.38	1.89	-2.89	-1.93	-2.07	-0.49	-3.35	-3.87	-2.56
2239819	-2.20	-2.51	-2.00	-2.04	-1.81	1.72	2.00	1.14	1.07	-2.56	-1.72	-1.96	-2.43	-2.63	-1.77
876720	3.00	3.09	-0.49	-1.07	-0.49	-0.93	-1.00	-0.85	-0.85	-0.49	-0.26	-0.49	-1.00	-1.07	-0.68
1910091	2.20	1.72	-0.58	-1.00	-0.85	-0.58	-0.85	-0.58	-0.49	-0.77	-0.77	-0.38	0.68	0.77	0.38

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2174130	1.81	1.85	-0.38	-0.38	-0.85	-0.26	-0.26	-0.26	-0.49	0.49	0.77	0.49	-0.93	-0.68	-0.14
2219077	2.83	1.81	0.00	-0.26	-0.38	-0.26	-0.68	-0.26	-0.49	0.00	-0.49	-0.14	-0.49	-0.85	-0.68
1965041	2.32	2.20	-0.58	-0.49	-0.93	1.38	0.93	0.77	-0.49	0.68	1.49	0.26	-0.58	-0.77	-0.49
1649959	2.49	2.26	-0.77	-0.77	-1.07	0.00	0.00	0.49	-0.93	-2.04	-1.38	-2.04	-1.72	-2.29	-1.54
1222317	2.10	2.10	-1.58	-1.77	-1.14	-0.26	-0.38	-0.26	-1.00	0.38	0.58	0.58	-1.38	-1.96	-0.26
2510171	3.14	2.72	-0.26	0.38	-0.77	-1.14	-1.32	1.00	-0.85	-1.77	-1.68	-1.32	-1.26	-1.63	-1.26
1988674	2.96	1.96	-0.77	-1.32	-1.00	-1.32	-0.93	-1.43	-1.07	-0.14	-0.68	0.38	-1.26	-0.68	-0.49
1672640	1.49	1.54	-1.54	-1.77	-1.77	-1.38	-1.81	-0.85	-1.26	0.58	0.68	0.14	-1.38	-1.07	-0.68
1749417	2.17	1.58	-1.07	-0.26	-0.77	1.77	1.14	2.32	-1.38	-0.77	-0.77	-1.07	-1.00	-1.00	-1.63
1926543	-0.68	-0.26	1.96	2.23	2.14	1.07	1.26	0.49	-0.26	0.00	-0.38	-0.58	-0.26	-0.68	0.00
1504934	-2.85	-2.38	3.09	3.82	3.07	-1.38	-0.93	-1.58	-1.96	-2.14	-2.32	-2.07	-2.32	-2.98	-1.96
2512879	0.38	0.38	2.81	3.02	3.17	-0.93	-1.85	-1.32	-2.29	-1.20	-0.68	-1.68	-3.02	-3.55	-2.72
1359832	0.38	0.38	2.49	3.31	2.96	-1.26	-2.23	-0.93	-2.94	-2.41	-1.38	-2.51	-5.09	-5.09	-4.04
1583076	0.38	0.26	2.68	3.20	3.07	-1.07	-1.89	-1.07	-2.20	-1.72	-0.77	-1.96	-3.32	-3.42	-2.68
139838	-2.87	-2.72	3.34	3.71	3.89	-2.89	-2.63	-2.79	-2.54	-2.85	-2.54	-2.17	-2.79	-3.15	-2.35
1344654	-1.20	-0.77	3.38	3.17	3.12	1.20	1.07	0.49	-1.00	-1.20	-1.07	-0.93	-1.32	-2.07	-1.14
2513979	-3.35	-2.85	3.52	3.91	3.95	-3.45	-2.68	-3.36	-3.25	-3.66	-3.28	-2.79	-3.04	-3.70	-3.34
2369312	-1.58	-0.58	4.09	3.64	4.10	-3.94	-4.03	-3.36	-3.61	-0.58	0.14	-1.96	-3.12	-3.04	-1.54
2048364	-3.71	-1.89	3.46	3.99	3.68	-3.38	-3.73	-2.96	-3.34	-3.79	-3.63	-3.34	-2.46	-2.58	-1.58
85246	-4.22	-4.47	3.20	4.17	3.19	-3.72	-3.82	-4.29	-4.04	-4.87	-4.49	-3.97	-4.43	-5.34	-4.43
166337	-1.32	-2.07	3.26	3.93	3.38	-2.07	-2.10	-2.29	-1.20	-1.43	-1.00	-1.20	-2.38	-2.29	-1.68
138274	-1.00	-0.58	2.63	3.09	2.23	-1.20	-1.14	-1.07	-0.68	-0.93	-0.26	-0.68	-0.85	-0.77	-0.58
1633340	-2.07	-1.89	2.83	3.38	2.94	-1.89	-1.54	-1.96	-1.43	-1.63	-1.58	-1.32	-1.43	-2.00	-1.32
1982416	-0.93	-1.20	3.29	3.39	2.51	-1.32	-0.77	-1.32	-0.68	-0.14	0.00	-0.38	-0.85	-0.93	-0.26
946822	-0.68	-0.49	1.14	1.63	1.26	-0.49	-0.49	-0.14	-0.49	-0.85	-0.58	-0.49	-0.58	-0.58	-0.68
2517330	-0.26	-0.38	2.14	1.89	1.32	-0.38	-0.38	-0.49	0.14	-0.26	-0.14	-0.14	0.00	0.14	0.00
2516489	-0.85	-1.00	2.79	3.00	2.72	0.14	0.38	0.68	-0.68	-1.07	-1.20	-0.77	-0.93	-0.93	-1.00
88741	-1.93	-1.49	3.92	3.69	2.56	-2.07	-1.93	-1.93	-1.32	-2.26	-2.04	-1.00	-1.58	-2.10	-1.43
168865	-2.26	-2.23	3.07	3.57	3.49	-2.23	-2.17	-2.63	-1.96	-1.68	-2.10	-1.81	-2.35	-2.58	-1.38
231779	-0.77	-0.93	2.00	2.23	1.81	-0.68	-0.49	-0.77	-1.00	-0.38	-0.26	-0.14	-1.07	-0.85	-0.68

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
234123	-1.20	-0.93	1.81	1.32	1.38	1.26	1.32	0.85	0.00	-1.00	-0.85	-1.43	-0.85	-1.00	-0.49
1833801	-0.14	-0.58	2.17	2.70	2.68	1.32	1.14	1.14	x	-0.77	-0.68	-0.26	-0.26	-0.49	-0.26
1923613	0.00	-0.26	2.83	2.51	3.32	1.14	1.81	0.58	-0.93	-0.93	-0.77	-0.93	-0.49	-0.77	-0.38
2058620	-0.77	-0.77	1.32	1.85	1.81	1.07	1.32	1.07	-0.85	-0.85	-1.14	-0.38	-1.00	-1.20	-1.00
1930954	-0.49	-0.38	3.07	2.66	1.81	0.93	1.07	0.49	x	-0.49	-0.77	-0.85	-1.26	-1.32	-0.58
1511658	-4.58	-5.14	3.62	4.31	2.70	-5.11	-5.15	-2.04	-4.02	-4.79	-4.59	-4.25	-5.39	-5.07	-4.34
2590673	-1.32	-0.85	3.39	3.25	3.31	-0.49	-1.14	0.00	-0.85	-1.85	-1.26	-1.72	-1.49	-1.93	-1.20
1995380	0.49	0.93	1.58	2.41	2.00	0.85	-0.14	1.14	-0.68	-2.04	-2.23	-2.17	-0.68	-1.38	-0.85
167409	-4.55	-4.54	2.89	4.34	3.19	-3.89	-4.58	-3.98	-1.72	-4.36	-3.47	-3.55	-4.60	-4.62	-3.95
1846226	-0.68	-0.26	1.32	1.49	1.85	0.68	0.93	0.85	-1.07	-0.85	-1.26	-0.58	0.68	0.26	0.38
2052185	-3.20	-3.19	3.42	4.54	2.89	-3.89	-4.04	-3.61	-3.00	-3.81	-3.26	-3.09	-3.80	-3.91	-3.36
2517389	-2.14	-1.81	3.66	3.20	3.32	-1.07	-0.85	-1.43	-1.38	-1.43	-1.89	-1.32	-1.63	-2.20	-1.32
911015	-1.20	-1.14	3.23	3.14	2.49	1.43	1.00	1.20	-0.68	-1.20	-0.49	-0.93	-1.58	-1.26	-1.07
604856	0.00	-1.14	3.22	3.36	0.00	-1.54	-1.93	-0.58	-1.20	-0.93	-1.49	-0.58	-1.63	-2.32	-1.93
1448718	-2.66	-2.56	4.84	3.64	-1.43	-2.79	-2.20	-2.35	-1.68	-2.51	-1.68	-1.93	-2.68	-2.17	-2.23
2517268	-2.41	-2.07	3.12	4.10	3.04	-2.41	-2.10	-2.43	-1.77	-1.77	-1.81	-1.54	-2.26	-2.20	-1.38
167134	-2.00	-2.38	3.28	3.63	3.63	-2.17	-2.35	-2.20	-1.63	-1.26	-1.77	-1.96	-2.32	-1.93	-0.85
2843638	0.68	0.49	3.10	2.63	2.23	-0.58	-0.38	-0.49	-0.26	-0.14	0.00	-0.58	-0.26	-0.14	-0.26
1813269	-0.49	0.26	3.60	3.77	3.31	-2.74	-3.49	-3.46	-2.61	-1.07	-2.20	0.14	-3.34	-4.07	-2.66
1861971	-4.26	-3.64	3.26	4.32	3.09	-5.41	-5.44	-4.95	-4.96	-4.89	-4.64	-4.91	-5.12	-5.58	-4.47
2005973	-0.68	-1.20	2.43	3.61	2.54	-0.26	-0.68	-1.00	-1.00	-1.07	-1.20	-1.43	-1.43	-1.81	-0.77
2515729	-2.89	-2.83	3.46	3.87	3.88	-1.14	-2.17	-0.58	-1.81	-2.85	-2.98	-2.94	-1.68	-2.63	-2.17
2132356	-1.07	-0.85	2.98	3.32	2.74	0.77	0.00	0.58	x	-1.07	-0.85	-0.85	-0.85	-1.38	-0.68
1001726	-0.14	-0.58	2.54	2.77	2.83	1.38	0.93	1.00	x	-1.38	-1.07	-0.77	-0.14	-0.38	-0.38
2631845	-1.07	-1.49	2.70	4.40	-0.49	-2.07	-2.23	-1.93	-2.51	-2.46	-2.29	-2.51	-3.00	-3.32	-2.51
86390	-1.20	-1.43	3.04	4.00	2.51	-1.54	-1.89	-1.63	-1.14	-0.85	-1.07	-0.49	-1.93	-2.04	-1.00
1287840	-0.68	-0.77	1.54	1.07	1.93	0.38	0.49	0.58	-0.58	-1.00	-0.93	-0.58	-0.68	-0.68	-0.77
2516905	-0.77	-0.93	2.46	3.55	2.63	-1.07	-0.85	-1.07	-0.26	-0.49	-0.49	-0.49	-0.38	-0.58	-0.14
606122	-1.49	-1.32	3.23	3.02	1.49	-1.49	-1.00	-1.72	-1.00	-1.38	-0.77	-1.49	-1.00	-1.38	-1.43
3553733	-0.93	-0.77	2.23	3.87	1.38	-0.68	-1.14	0.00	-1.00	-0.85	-1.38	-0.85	-0.93	-1.07	-0.58



Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1813381	-2.72	-2.58	3.52	4.06	3.70	-2.41	-2.54	-2.58	-1.81	-2.61	-2.20	-2.85	-3.20	-2.32
1988108	-0.26	-0.26	2.17	2.29	2.10	0.49	0.14	0.26	1.07	-0.49	-0.26	-1.85	-1.81	-1.00
1644648	-2.35	-1.32	1.38	2.07	2.35	1.32	0.93	1.07	-0.14	-1.96	-1.77	-2.10	-2.38	-1.68
2516104	-3.79	-3.77	2.89	3.12	3.31	-3.91	-3.63	-3.45	-3.15	-3.45	-3.28	-3.77	-3.91	-3.31
2516448	-1.93	-1.77	3.39	2.51	3.23	-1.93	-1.77	-1.68	-1.14	-1.32	-1.14	-1.43	-1.81	-1.68
2514507	-3.67	-3.46	3.52	3.47	3.78	-3.23	-2.96	-4.01	-2.81	-3.20	-2.94	-3.15	-3.86	-3.26
1427470	-0.93	-0.85	2.00	2.61	1.96	-1.54	-1.49	-1.72	0.38	-0.85	-0.85	-1.20	-1.43	-0.68
1311471	-2.26	-2.61	3.90	3.84	4.10	-2.26	-2.10	-2.23	-1.38	-1.89	-1.72	-2.43	-2.38	-1.77
195142	-2.58	-2.79	3.26	3.88	3.47	-2.41	-2.54	-2.46	-2.14	-2.98	-2.26	-2.91	-2.58	-2.43
29598	-3.60	-3.34	2.81	3.82	2.94	-2.54	-2.54	-3.12	-3.14	-3.73	-2.79	-4.31	-4.56	-3.72
1968576	0.26	0.14	1.96	2.63	1.54	0.93	1.32	0.58	-1.07	-1.20	-0.77	-2.00	-2.17	-1.32
2959255	-1.26	-0.85	1.26	1.85	1.72	-0.58	-0.26	-0.26	-1.85	0.38	1.07	-1.07	-1.38	-0.85
446969	-1.00	-0.26	3.07	3.74	2.70	-0.58	-1.89	0.49	-2.17	-1.96	-1.43	-2.85	-3.32	-1.89
1631511	-1.49	-1.00	1.49	2.32	2.07	1.07	1.49	0.58	-1.85	-1.93	-1.68	-2.61	-2.93	-2.29
1508741	-0.38	0.14	3.12	4.13	3.19	-3.00	-2.94	-2.66	-1.54	-2.91	-2.66	-2.66	-3.10	-2.10
2513602	-2.51	-2.56	2.04	3.17	3.23	2.35	1.77	1.77	-1.81	-1.96	-1.77	-2.10	-2.70	-1.38
1981145	-1.49	-1.63	1.85	2.77	2.58	1.63	2.20	1.26	-1.63	-2.10	-2.20	-1.54	-2.00	-1.93
2103752	0.58	0.93	1.72	2.26	1.32	1.58	1.43	1.32	0.26	-1.00	-1.07	-1.63	-2.07	-1.68
2658782	-2.72	-2.04	1.77	3.66	1.68	1.72	0.68	1.81	x	-2.85	-2.87	-1.93	-2.46	-1.93
2099420	-1.43	-1.38	2.51	1.72	2.72	2.49	1.63	2.07	-0.93	-1.72	-1.77	-1.14	-1.54	-0.85
637639	-2.54	-2.68	2.38	3.39	2.63	1.58	1.43	1.07	-2.17	-1.85	-2.35	-2.38	-2.26	-1.58
279249	-3.78	-3.73	2.49	3.14	2.79	1.85	2.04	1.58	-3.15	-2.81	-3.41	-3.15	-3.69	-2.63
1379063	-1.54	-1.26	2.96	3.02	2.10	1.93	1.54	1.58	-0.93	-1.63	-1.14	-2.07	-2.17	-1.20
89747	-3.28	-3.43	2.83	3.69	2.98	1.63	1.38	1.32	-1.89	-3.19	-2.56	-3.19	-2.66	-2.41
2515873	-1.96	-1.68	2.51	3.29	2.79	1.32	0.77	1.54	-2.07	-2.32	-1.43	-1.00	-1.49	-1.20
1432372	0.38	1.07	1.26	2.14	1.89	1.68	1.20	1.68	-1.00	-1.14	-0.85	-1.63	-1.54	-1.20
1633719	-3.46	-3.52	2.38	2.49	3.00	1.77	1.85	1.49	-1.89	-3.70	-2.63	-3.77	-3.47	-2.96
1712663	-1.20	-0.68	3.34	3.49	2.41	-1.49	-1.38	-1.07	1.32	-1.43	-1.38	-1.72	-1.49	-0.85
4285203	-1.26	-1.20	2.81	3.72	2.00	-1.43	-1.49	-1.20	1.49	-1.38	-0.85	-1.32	-1.81	-1.00
1634342	-0.49	0.26	0.68	0.93	0.93	1.58	1.58	1.93	-0.38	-0.85	-1.07	-0.58	-1.14	-0.85

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1418871	-1.00	-1.14	-0.93	-0.85	-0.49	2.81	2.77	2.61	-0.85	-1.32	-1.14	-1.20	-1.07	-1.38	-0.85
3766382	-0.85	-1.00	-0.77	-1.20	-1.20	1.89	1.43	1.49	-0.77	-0.49	0.00	-1.07	-1.49	-1.14	-0.68
943181	-1.72	-1.63	-1.26	-1.68	-1.32	2.85	3.07	1.89	-1.00	-1.38	-0.77	-1.43	-1.38	-1.32	-1.00
603761	-2.00	-1.54	-1.81	-1.93	-1.20	3.12	1.32	3.63	x	-1.85	-1.32	-1.26	-1.14	-1.14	0.00
1297562	0.68	0.77	-2.26	-2.56	-2.26	1.63	2.07	1.32	0.49	-0.58	-1.81	-1.81	-1.00	-0.68	-0.49
2910715	0.58	0.26	-1.00	-0.93	-0.77	2.54	1.32	2.81	0.49	-0.68	-0.77	-0.49	-1.43	-1.77	-1.14
196975	-0.68	-0.85	0.49	0.85	0.49	1.89	1.32	1.85	x	-0.38	-0.49	0.00	-0.26	-0.26	-0.38
1453049	1.32	1.58	-0.77	-0.93	-1.07	2.17	1.93	2.26	x	-1.43	-1.07	-0.93	-1.77	-1.77	-1.00
1968695	-0.26	-0.49	-1.32	-1.00	-0.85	1.63	1.07	1.89	-1.20	-0.38	-0.14	0.00	-1.14	-1.07	-1.00
958344	-4.09	-3.74	-3.89	-3.54	-3.39	3.02	3.12	2.94	-2.10	-3.60	-3.64	-3.81	-4.03	-4.22	-2.93
2820985	-2.91	-2.29	-0.68	0.14	-0.38	2.43	1.77	2.70	-1.58	-2.54	-1.68	-2.14	-1.96	-3.05	-1.58
1633393	-0.38	-0.49	-1.49	-1.14	-1.26	1.49	1.49	1.54	-0.14	-1.54	-1.54	-1.63	0.49	0.00	-0.26
1806451	-1.58	-1.14	-1.49	-1.00	-1.14	2.49	2.68	1.68	-1.00	-1.43	-1.07	-0.93	-1.38	-1.85	-0.77
2674772	-2.93	-2.96	-0.26	0.14	0.14	3.17	2.17	2.94	-1.63	-2.94	-2.38	-2.20	-3.26	-3.23	-2.23
1376121	1.20	1.58	-1.20	-1.07	-0.68	1.63	1.63	1.93	-0.85	-0.85	-0.68	-0.58	-1.20	-0.58	-0.85
831794	-1.72	-1.26	0.58	1.54	0.93	2.23	1.58	2.04	-2.17	-1.63	-1.54	-1.93	-0.58	-0.68	-0.49
1427681	-2.04	-2.20	1.77	2.17	2.70	2.72	2.43	2.54	-1.85	-2.17	-1.63	-1.58	-2.35	-2.43	-1.85
2912830	-3.32	-3.56	0.14	-0.14	-0.85	3.20	2.87	2.54	0.58	-2.98	-3.15	-2.89	-3.77	-3.79	-2.68
504786	-2.35	-1.85	-2.43	-2.98	-2.49	2.51	2.38	2.32	-2.23	-1.81	-2.04	-1.38	1.63	1.20	0.58
254081	-5.47	-5.31	-4.95	-5.03	-5.13	-4.78	-4.73	-5.17	4.21	-4.70	-5.38	-5.43	-5.35	-5.44	-4.66
1330674	-5.03	-5.22	-4.34	-4.84	-4.91	-4.36	-5.42	-5.00	4.39	-4.39	-4.52	-4.81	-5.07	-5.31	-3.91
2377834	-6.27	-6.31	-5.95	-5.86	-5.77	-6.48	-6.63	-6.55	4.69	-6.10	-6.11	-5.81	-6.64	-6.60	-5.98
2075464	-4.57	-4.94	-4.38	-4.83	-3.97	-5.08	-4.77	-4.82	4.28	-4.75	-4.23	-4.38	-5.01	-4.77	-4.55
2383235	-5.07	-5.35	-4.99	-4.95	-4.97	-5.48	-5.85	-5.69	4.59	-4.95	-5.43	-4.91	-5.73	-5.77	-5.00
1285503	-0.85	-0.85	-1.49	-1.81	-1.68	-2.14	-2.38	-1.49	2.43	-2.46	-1.38	-1.54	-2.07	-2.29	-1.85
2383205	-5.14	-5.34	-4.54	-4.85	-4.73	-5.55	-5.63	-5.53	4.66	-5.37	-5.28	-4.89	-5.67	-5.63	-5.01
2015871	-5.38	-5.30	-5.41	-5.03	-4.74	-5.25	-5.17	-5.35	2.66	-4.97	-4.95	-4.73	-4.88	-5.64	-4.84
2374046	-0.68	-0.77	-0.49	-1.20	-0.49	-0.58	-0.58	-0.58	3.55	-1.07	-0.49	-1.20	-0.38	-0.68	-0.49
1709828	1.14	0.38	-0.49	-0.49	-0.38	1.20	0.93	0.93	2.26	-0.26	-0.93	-0.14	-0.26	-0.38	0.00
2061119	-0.38	-0.58	-0.77	-0.68	-0.85	0.14	0.14	0.14	1.93	0.00	-0.26	0.00	-0.14	-0.38	-1.20

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Siriatum (3971)
3665105	-2.94	-3.04	-2.83	-3.14	-3.04	-1.49	-1.72	-1.49	4.26	-2.94	-2.83	-2.89	-2.81	-3.46	-2.29
2068983	-3.04	-3.39	-3.23	-3.09	-3.05	-3.45	-3.41	-3.39	4.96	-3.46	-2.85	-2.68	-3.35	-3.35	-3.32
2242648	-3.57	-3.68	-3.39	-3.69	-3.50	-3.67	-4.55	-3.45	3.87	-3.73	-3.69	-3.69	-3.80	-3.89	-3.20
885032	-3.47	-3.17	-3.38	-3.14	-2.77	-3.45	-2.89	-3.28	3.85	-2.17	-2.35	-2.94	-2.61	-3.20	-2.04
2383830	-4.65	-5.12	-5.48	-5.45	-5.13	-5.76	-5.69	-5.91	4.54	-5.76	-5.39	-5.03	-6.48	-6.49	-5.74
2085191	-6.64	-6.64	-6.35	-6.41	-6.23	-6.64	-6.64	-6.64	4.35	-6.64	-6.64	-6.60	-6.64	-6.64	-6.42
2792982	-6.20	-6.20	-6.03	-5.79	-5.51	-6.15	-6.08	-6.16	4.48	-5.95	-5.86	-5.76	-5.53	-6.12	-5.82
179929	-1.20	-1.26	-0.77	0.26	-0.93	0.58	-0.26	0.58	2.20	-2.07	-2.07	-1.07	-2.35	-2.54	-2.04
2741788	-1.68	-1.43	-1.43	-1.20	-1.49	-1.38	-1.58	-1.00	2.83	-0.14	-0.14	0.00	-1.26	-1.07	-1.32
2373608	-4.11	-4.46	-3.46	-4.36	-3.60	-4.09	-3.79	-3.92	4.07	-4.22	-3.99	-3.49	-4.10	-3.91	-3.78
2182095	-4.31	-4.14	-4.32	-4.07	-3.79	-4.14	-4.08	-4.40	4.19	-3.51	-3.64	-3.68	-3.86	-4.50	-3.46
2923150	-6.52	-6.64	-6.21	-6.32	-6.20	-6.56	-6.64	-4.96	5.07	-6.46	-6.64	-6.19	-6.64	-6.64	-6.55
293495	-0.93	-1.49	2.56	3.78	1.38	-2.38	-2.91	-0.58	3.47	-1.63	-2.54	-2.72	-2.32	-2.98	0.14
4284270	-1.14	-1.26	2.68	3.79	1.81	-1.63	-1.20	-1.38	3.15	-1.72	-1.49	-1.20	-1.26	-1.58	-0.93
958923	-1.26	-1.32	-0.26	-1.07	-0.49	1.89	1.72	1.85	2.41	-1.32	-0.49	-0.85	0.77	0.68	-0.38
1921393	-3.00	-2.14	-2.91	-2.93	-2.29	2.20	1.20	2.54	3.19	-1.38	-2.49	-1.85	-2.87	-3.25	-2.41
1447866	-0.26	0.26	-0.26	-0.58	0.00	-0.38	-0.26	-0.26	-0.58	2.00	2.07	1.93	-1.07	-1.00	-0.26
1666737	1.14	0.93	-0.38	-0.77	-0.26	-0.14	-0.49	0.14	-0.49	2.54	2.17	2.61	-1.49	-1.58	-0.14
586245	-1.07	-0.26	-0.77	0.49	-0.58	-0.77	-0.49	-0.68	-1.89	2.72	1.07	2.70	-2.89	-3.02	-2.00
194162	-1.58	-1.54	-1.54	-1.54	-1.43	-1.54	-2.43	-1.43	-2.07	2.20	2.63	2.46	-2.43	-2.89	-1.93
243123	-1.72	-2.00	-1.32	-1.49	-1.58	-1.77	-2.14	-1.93	-0.49	-1.89	-1.77	-1.14	2.91	2.58	1.72
382416	-2.10	-2.23	-2.68	-2.49	-1.54	-3.34	-3.02	-2.58	-2.17	-2.04	-2.17	-2.35	1.68	0.58	3.52
1852659	-1.68	-1.32	-1.77	-2.38	-1.77	-2.43	-2.10	-2.20	-1.49	-2.17	-1.81	-1.81	3.09	2.91	1.38
3220181	-1.07	-0.85	-0.49	0.14	-0.49	-0.49	-0.77	0.14	-0.14	-0.85	-0.93	-0.26	1.72	1.26	1.49
1726307	-0.77	-0.26	-1.32	-1.49	-1.07	-1.38	-1.26	-1.07	-1.32	-0.93	-0.68	-0.68	2.17	1.93	1.54
1904244	-0.85	-0.38	0.00	0.00	0.26	-0.68	-0.14	-0.14	0.14	-0.85	-0.14	-0.26	2.23	2.04	1.43
2039955	-1.20	-1.54	-1.32	-0.68	-0.77	-1.38	-0.93	-1.20	-1.07	-1.20	-1.32	-0.58	2.58	2.63	1.96
2675641	-1.68	-1.43	-1.68	-1.54	-1.20	-0.85	-0.68	-0.77	-1.20	-0.14	-1.00	0.26	2.10	1.93	1.20
1412749	-1.00	-1.00	-0.85	-1.00	-0.49	-1.14	-0.77	-1.26	-0.26	-0.77	-0.38	-1.00	2.43	2.46	2.04
1963854	-0.85	-0.93	-1.20	-1.07	-0.77	0.14	0.26	0.77	-1.00	-0.14	-0.26	-0.38	2.00	1.63	1.00

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2949085	-0.26	-0.14	-1.07	-0.93	-1.20	-0.49	-0.77	-0.49	-0.68	-0.14	-0.38	0.00	2.17	1.68	1.07
2963196	-2.17	-2.00	-2.23	-2.29	-2.26	-2.38	-2.81	-2.10	-2.43	-2.00	-2.32	-1.77	2.35	1.26	2.56
1505977	-1.77	-1.72	-1.26	-1.26	-1.49	-2.17	-2.26	-2.14	-1.49	-2.43	-1.49	-1.89	3.19	2.38	1.58
1674985	-0.77	-0.49	-0.49	-1.00	-0.68	-0.26	-0.26	-0.38	-0.49	-0.58	-0.49	-0.49	1.85	1.89	1.20
2109054	-1.14	-0.58	-0.68	-0.58	-1.14	-0.14	-0.58	-0.26	-0.77	-1.32	-1.07	-0.77	2.35	1.81	1.38
3317039	-1.14	-1.00	-1.07	-1.00	-0.93	0.58	0.14	0.93	-0.68	-1.14	-1.26	-0.85	2.10	2.10	1.68
2838551	-0.93	-0.68	-0.77	-1.00	-0.58	-0.38	-0.38	-0.58	-0.14	-0.85	-0.58	-0.77	1.63	1.63	0.77
1477568	-1.26	-1.26	-2.20	-2.14	-2.32	-0.77	-1.43	-0.77	-1.93	-1.20	-1.77	-0.77	2.14	1.26	2.77
2963871	-0.26	-0.26	-1.32	-1.58	-1.38	-0.77	-0.93	-0.68	-0.77	-0.85	-0.68	-0.58	1.32	1.54	1.72
1740547	-0.77	-1.07	-1.26	-1.38	-1.26	-1.32	-1.20	-1.43	-1.14	-0.77	-0.38	-0.14	2.61	2.41	2.46
2292011	-2.00	-2.41	-1.81	-2.04	-2.04	-2.29	-2.72	-2.10	-2.38	-1.96	-2.51	-2.17	3.29	3.02	0.00
1349484	-0.26	-0.14	-0.26	-0.38	-0.49	-0.49	-0.77	-0.58	x	0.00	-0.14	0.00	1.93	1.85	1.32
1674253	1.00	0.68	-1.00	-1.07	-0.93	0.14	0.58	0.00	-0.85	-0.49	-0.68	-0.26	1.77	1.49	0.85
1932189	-2.38	-2.00	-2.70	-2.46	-2.43	-2.56	-2.38	-2.35	-2.04	-1.26	-2.29	-1.26	3.25	2.61	0.85
1403041	-1.81	-1.58	-1.68	-1.38	-1.14	-1.49	-1.43	-1.43	-1.14	-1.72	-1.20	-0.85	2.96	2.26	1.00
1486358	-1.72	-1.26	-2.70	-2.29	-2.23	-1.63	-1.89	-1.20	-2.56	-2.14	-2.54	-2.29	2.14	1.89	0.85
1439065	-0.14	-0.14	0.38	-0.58	0.14	-0.49	-0.49	-0.49	x	-0.14	0.38	0.00	1.85	1.54	1.77
530629	-0.85	-1.14	-0.58	-1.00	-0.58	-1.32	-1.00	-1.00	x	-0.93	-0.38	-0.38	2.83	2.43	1.68
1672676	-1.72	-1.63	-2.10	-2.26	-2.10	-2.00	-2.17	-1.58	-1.89	-1.54	-1.68	-1.32	2.89	2.58	1.68
1989129	-1.00	-1.07	-1.81	-1.68	-1.81	-0.14	-1.14	-0.14	-1.58	-1.20	-1.77	-0.58	2.29	1.89	2.91
1486348	-2.46	-2.38	-2.43	-2.38	-2.41	-2.54	-2.51	-2.81	-1.68	-1.72	-1.68	-1.63	2.38	2.68	1.63
1397294	-0.49	-0.49	-1.38	-1.14	-1.07	-1.32	-1.77	-1.20	-1.32	0.26	-0.93	0.58	2.70	2.26	1.68
2844322	-1.77	-1.26	-2.00	-2.04	-2.14	-2.23	-2.58	-2.17	-1.93	-2.17	-2.00	-1.20	2.85	2.46	2.07
1481440	-1.14	-1.32	-1.07	-1.38	-0.85	-1.49	-1.43	-1.26	-1.00	-1.26	-0.49	-0.68	2.38	2.43	1.63
26459	-1.00	-1.00	-0.85	-0.85	-1.14	-1.20	-1.20	-0.93	-1.14	-0.77	-0.93	-0.85	2.17	2.23	0.68
1406786	-0.68	-0.58	-0.93	-1.38	-1.38	-1.26	-1.00	-0.85	-1.49	-1.14	-0.49	-1.14	2.07	1.72	0.93
1485846	-5.50	-5.53	-5.15	-5.17	-4.72	-5.57	-5.68	-5.44	-5.02	-5.42	-5.00	-4.87	3.02	2.54	2.23
2153242	-1.54	-1.68	-1.58	-1.72	-1.54	-2.14	-1.72	-2.00	-1.43	-1.81	-1.14	-0.77	2.89	2.51	1.14
2157981	-1.93	-1.85	-1.93	-1.81	-1.49	-0.38	-0.49	-0.26	-1.07	-2.38	-1.49	-1.43	3.09	2.32	0.85
3244361	-1.20	-1.07	0.68	1.38	0.85	-0.85	-1.26	-1.20	-0.58	-1.32	-1.07	-0.77	2.14	1.93	1.07

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1986737	-1.43	-1.26	-2.26	-1.63	-1.96	-1.07	-0.68	-0.93	-1.77	-0.85	-1.43	0.00	2.32	2.14	0.85
2506867	-2.93	-2.61	-2.85	-2.98	-3.23	-1.20	-1.07	-0.49	-2.49	-3.15	-3.05	-2.77	3.32	2.51	1.49
1211682	-1.81	-1.96	-1.07	-1.54	-1.26	-1.89	-2.35	-2.23	-2.46	-1.26	-1.85	-1.14	2.79	2.41	1.58
1416354	-0.93	-0.85	-1.38	-1.14	-1.26	-1.58	-1.32	-1.38	-1.26	-0.77	-0.49	-0.68	1.96	1.49	1.07
2963962	-1.26	-1.26	-1.07	-1.58	-1.00	-1.68	-1.77	-1.58	-1.07	-1.20	-1.14	-1.20	1.43	0.85	1.49
1761086	-1.93	-1.93	-1.58	-2.14	-1.72	-1.20	-1.38	-1.38	-1.81	-2.04	-1.81	-1.96	1.54	1.20	0.26
2588552	1.68	1.72	-0.77	-1.38	-1.00	-1.43	-1.26	-1.07	-0.58	-1.96	-0.93	-0.68	2.72	1.85	2.46
1901271	-0.85	-0.38	2.04	1.14	0.38	-0.14	0.38	0.00	-1.20	-0.38	0.14	0.14	1.63	1.49	1.07
1740924	-1.00	-0.93	1.43	1.14	1.38	-1.14	-0.85	-1.49	-0.58	-0.49	-0.68	-0.68	1.89	1.96	0.77
1480159	-1.54	-1.58	-1.26	-1.32	-1.26	-0.49	-0.26	-0.49	1.43	-1.49	-1.00	-0.38	2.17	2.00	0.77

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
2380381	1.94	0.10	20.13	6.82E-08
1618422	2.04	0.07	27.49	5.37E-09
2672064	2.41	0.10	23.48	1.96E-08
608361	1.97	0.09	23.03	2.29E-08
1922596	4.97	0.19	25.77	9.14E-09
1850033	5.92	0.40	14.64	1.42E-06
986987	8.95	0.10	86.39	2.99E-13
718807	5.91	0.09	67.09	2.71E-12
2880435	1.47	0.06	24.37	1.45E-08
187326	10.19	0.13	79.62	6.10E-13
1997963	6.10	0.17	36.56	4.95E-10
467700	8.97	0.20	45.64	7.52E-11
57382	11.72	0.12	97.40	1.04E-13
1222442	4.12	0.17	23.82	1.74E-08
4013105	9.43	0.26	36.28	5.29E-10
924319	15.30	0.53	28.81	3.64E-09
1645119	3.78	0.11	34.35	8.37E-10
1379925	8.88	0.10	93.06	1.56E-13
1900961	6.90	0.17	40.30	2.17E-10
3506985	8.86	0.42	21.22	4.45E-08
551403	4.53	0.21	21.39	4.17E-08
3948420	7.12	0.19	36.73	4.76E-10
1722853	2.58	0.10	25.92	8.71E-09
1557490	4.82	0.15	33.20	1.11E-09
3208425	4.49	0.22	20.44	6.03E-08
1668474	5.40	0.08	67.90	2.44E-12
1622542	2.13	0.07	30.18	2.47E-09
4014318	3.14	0.15	20.97	4.89E-08
2394888	5.04	0.13	37.38	4.11E-10
1345550	14.73	0.19	76.01	9.14E-13
1719955	7.24	0.23	31.18	1.88E-09
2256026	2.96	0.11	26.92	6.38E-09
1538086	2.63	0.07	38.49	3.21E-10
958633	1.62	0.07	23.10	2.24E-08
2635943	10.60	0.16	66.67	2.86E-12
121888	11.84	0.13	88.75	2.36E-13
1627492	2.26	0.07	33.25	1.10E-09
4073867	2.26	0.11	21.01	4.82E-08
2190170	1.94	0.08	23.90	1.70E-08
972224	14.59	0.30	49.39	3.83E-11
1413644	4.89	0.24	20.10	6.90E-08
1538224	1.89	0.09	20.37	1.10E-07
2623268	2.63	0.12	21.59	3.87E-08
1665533	1.42	0.07	19.97	7.25E-08
981484	2.10	0.04	47.76	5.10E-11
973629	11.67	0.18	66.17	3.06E-12
1539638	1.56	0.04	35.82	5.89E-10
3015758	10.73	0.24	44.75	8.89E-11
2832314	4.17	0.14	30.35	2.36E-09
1702996	2.53	0.08	31.33	1.81E-09
839947	2.19	0.09	24.61	1.33E-08
1867522	17.51	0.28	61.87	5.47E-12
1987831	2.13	0.08	27.25	1.06E-08
2639708	9.66	0.07	137.49	4.99E-15
973815	11.77	0.23	51.52	2.66E-11
169884	11.47	0.12	96.95	2.14E-13
2638235	3.76	0.05	70.07	1.86E-12

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
305198	8.01	0.19	42.81	1.30E-10
57997	6.98	0.15	45.44	7.81E-11
986558	7.92	0.13	61.57	5.71E-12
224996	9.69	0.26	37.77	3.76E-10
661259	3.88	0.18	21.82	3.55E-08
3246379	4.92	0.18	26.85	6.53E-09
78783	4.25	0.24	17.54	3.57E-07
2639181	27.23	0.12	219.82	7.75E-17
1672467	11.44	0.15	77.23	7.96E-13
2950063	13.85	0.21	65.86	3.18E-12
3288518	22.52	0.19	119.44	1.73E-14
184110	20.44	0.53	38.26	3.37E-10
1368173	5.43	0.09	61.20	6.02E-12
1813409	4.65	0.19	24.90	1.21E-08
58309	17.08	0.14	121.53	1.49E-14
1721744	3.00	0.09	35.26	6.71E-10
1924344	7.76	0.17	45.89	7.18E-11
3176845	12.14	0.19	62.97	4.70E-12
2286809	8.52	0.25	34.50	8.07E-10
1985244	4.68	0.16	29.30	3.16E-09
1570042	3.22	0.12	27.83	4.85E-09
2079906	2.69	0.14	19.61	8.40E-08
2852042	5.26	0.24	21.94	3.40E-08
1319020	4.01	0.15	26.40	7.49E-09
1572555	7.76	0.23	34.07	8.98E-10
782235	6.11	0.42	14.43	1.58E-06
1314882	6.00	0.29	20.42	1.08E-07
1403636	3.69	0.15	24.94	1.20E-08
1968921	1.21	0.06	20.09	6.93E-08
1558081	3.17	0.15	20.86	5.12E-08
2495131	4.68	0.17	26.87	6.48E-09
4049957	9.52	0.39	24.32	1.47E-08
1686585	6.01	0.18	33.56	1.02E-09
2696735	8.26	0.23	36.41	5.12E-10
1720149	5.48	0.24	22.65	2.63E-08
1866751	8.79	0.28	31.47	1.74E-09
1851696	5.84	0.12	50.27	3.28E-11
93820	7.72	0.34	22.63	2.65E-08
2368282	0.10	0.06	1.69	1.63E-01
2831248	1.22	0.03	35.01	7.14E-10
182802	0.82	0.09	8.93	4.98E-05
1003884	2.80	0.10	27.91	4.74E-09
1120	0.99	0.04	24.45	1.41E-08
1308542	1.47	0.05	26.85	6.52E-09
3820761	6.10	0.25	24.89	1.22E-08
1999167	3.20	0.16	20.08	6.95E-08
1522716	4.89	0.22	21.84	3.53E-08
1612969	1.71	0.05	34.60	7.88E-10
337500	1.99	0.09	22.42	2.85E-08
1285380	1.08	0.05	23.71	1.81E-08
1636639	2.34	0.06	37.45	4.04E-10
1985870	1.91	0.08	23.67	1.83E-08
1677936	15.10	0.56	26.99	6.26E-09
910612	13.68	0.66	20.60	5.65E-08
2594407	14.00	0.62	22.42	2.85E-08
963536	7.29	0.14	51.69	2.59E-11
2252895	6.28	0.23	26.86	6.50E-09

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
2804190	1.78	0.05	32.78	1.24E-09
1998428	7.92	0.08	93.61	1.48E-13
1800114	4.50	0.18	24.96	1.19E-08
1806769	6.28	0.19	33.07	1.15E-09
2474163	3.77	0.16	23.26	2.11E-08
1435374	7.49	0.28	26.56	7.12E-09
434377	3.63	0.17	21.28	4.35E-08
2121863	4.60	0.09	50.89	2.96E-11
1597231	4.47	0.13	35.24	1.27E-09
4174437	13.13	0.41	32.27	1.41E-09
2182901	13.23	0.39	33.98	9.18E-10
1747979	1.80	0.05	36.38	5.17E-10
1630553	4.76	0.11	41.76	1.60E-10
478960	2.02	0.06	33.56	1.02E-09
2132487	2.54	0.10	26.35	7.61E-09
2921152	9.32	0.12	76.38	8.76E-13
1846428	6.42	0.10	67.23	2.66E-12
2796143	3.39	0.10	32.61	1.30E-09
1805613	3.54	0.14	25.38	1.04E-08
1431273	6.39	0.12	53.05	2.07E-11
1804662	2.47	0.11	21.54	3.95E-08
2921194	4.16	0.06	71.14	1.63E-12
395368	7.68	0.16	47.72	5.14E-11
2182861	1.49	0.07	21.65	3.79E-08
1806436	2.67	0.08	33.51	1.93E-09
2922143	8.80	0.24	36.96	4.51E-10
1696001	3.19	0.10	33.34	1.08E-09
1635004	9.35	0.40	23.56	1.91E-08
2132752	8.31	0.35	24.01	1.63E-08
1734393	9.31	0.18	52.61	2.22E-11
4179338	23.18	0.38	60.49	6.66E-12
1427623	8.58	0.27	31.57	3.16E-09
3320987	8.40	0.23	35.93	5.74E-10
2239819	7.95	0.12	65.54	3.32E-12
876720	3.67	0.03	111.15	3.27E-14
1910091	1.78	0.05	37.15	4.32E-10
2174130	1.34	0.05	24.70	1.30E-08
2219077	1.77	0.10	17.69	3.33E-07
1965041	2.32	0.11	21.88	3.48E-08
1649959	4.06	0.08	48.69	4.32E-11
1222317	2.48	0.12	19.82	7.71E-08
2510171	5.01	0.33	15.39	9.76E-07
1988674	2.89	0.13	22.61	2.66E-08
1672640	3.40	0.17	20.16	6.71E-08
1749417	4.09	0.11	36.76	4.72E-10
1926543	1.80	0.06	28.63	3.83E-09
1504934	7.25	0.13	57.58	1.02E-11
2512879	6.33	0.10	61.41	5.84E-12
1359832	9.34	0.25	37.96	3.60E-10
1583076	6.62	0.15	45.58	7.60E-11
139838	9.81	0.11	91.36	1.83E-13
1344654	5.30	0.10	50.79	3.01E-11
2513979	11.65	0.18	64.60	3.77E-12
2369312	12.93	0.31	41.06	1.85E-10
2048364	11.94	0.24	50.57	3.12E-11
85246	15.28	0.19	80.75	5.39E-13
166337	6.51	0.18	36.47	5.06E-10



Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
138274	2.89	0.06	50.18	3.34E-11
1633340	5.88	0.08	73.59	1.21E-12
1982416	4.23	0.10	43.11	1.22E-10
946822	0.84	0.04	23.67	1.83E-08
2517330	1.21	0.04	30.23	2.44E-09
2516489	3.69	0.08	48.89	4.17E-11
88741	6.33	0.16	39.74	2.45E-10
168865	7.32	0.11	69.05	2.11E-12
231779	2.11	0.03	65.83	3.20E-12
234123	2.35	0.05	45.40	7.87E-11
1833801	2.53	0.07	34.08	1.67E-09
1923613	3.53	0.08	43.51	1.13E-10
2058620	2.22	0.08	28.30	4.23E-09
1930954	2.94	0.10	28.90	6.55E-09
1511658	15.98	0.55	29.28	3.18E-09
2590673	5.18	0.10	53.53	1.91E-11
1995380	3.92	0.13	29.18	3.27E-09
167409	13.73	0.23	59.33	7.87E-12
1846226	2.37	0.05	43.87	1.05E-10
2052185	12.30	0.22	55.64	1.37E-11
2517389	6.16	0.09	68.31	2.32E-12
911015	4.29	0.11	39.90	2.36E-10
604856	3.92	0.60	6.50	3.91E-04
1448718	6.21	1.54	4.04	5.66E-03
2517268	6.93	0.10	68.50	2.26E-12
167134	7.22	0.12	60.59	6.57E-12
2843638	2.14	0.05	41.93	1.55E-10
1813269	9.85	0.34	29.17	3.29E-09
1861971	16.91	0.16	103.79	5.97E-14
2005973	4.25	0.21	19.94	7.33E-08
2515729	9.83	0.15	66.87	2.79E-12
2132356	4.65	0.08	56.22	2.42E-11
1001726	3.99	0.07	59.77	1.43E-11
2631845	6.14	1.08	5.70	8.59E-04
86390	4.78	0.24	20.25	6.48E-08
1287840	1.23	0.05	22.75	2.54E-08
2516905	3.22	0.09	35.40	6.50E-10
606122	3.70	0.18	20.77	5.29E-08
3553733	3.67	0.33	11.16	1.05E-05
1813381	9.36	0.21	43.66	1.10E-10
1988108	3.39	0.07	47.86	5.01E-11
1644648	5.80	0.16	36.83	4.65E-10
2516104	12.64	0.21	61.15	6.06E-12
2516448	5.80	0.14	40.95	1.89E-10
2514507	12.10	0.32	37.31	4.17E-10
1427470	3.80	0.09	43.37	1.16E-10
1311471	9.16	0.16	58.72	8.61E-12
195142	10.59	0.10	107.66	4.32E-14
29598	14.19	0.21	67.15	2.69E-12
1968576	4.52	0.10	46.73	6.15E-11
2959255	3.40	0.15	23.02	2.30E-08
446969	9.50	0.36	26.46	7.36E-09
1631511	8.27	0.15	56.65	1.17E-11
1508741	9.90	0.18	54.89	1.54E-11
2513602	8.11	0.16	49.65	3.66E-11
1981145	6.12	0.10	64.25	3.95E-12
2103752	3.95	0.07	54.70	1.59E-11

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
2658782	9.83	0.26	37.29	7.89E-10
2099420	5.81	0.09	64.47	3.83E-12
637639	7.71	0.26	29.49	3.00E-09
279249	12.48	0.16	77.94	7.35E-13
1379063	6.24	0.20	30.82	2.08E-09
89747	11.71	0.16	75.19	1.01E-12
2515873	6.73	0.12	57.38	1.05E-11
1432372	4.27	0.11	40.13	2.25E-10
1633719	11.91	0.13	89.18	2.26E-13
1712663	4.84	0.14	35.46	6.41E-10
4285203	4.91	0.19	25.41	1.03E-08
1634342	2.22	0.09	24.38	1.44E-08
1418871	3.42	0.05	71.00	1.66E-12
3766382	1.81	0.09	19.98	7.22E-08
943181	3.56	0.10	34.37	8.34E-10
603761	5.67	0.35	16.30	6.27E-07
1297562	4.01	0.17	23.67	1.83E-08
2910715	3.39	0.12	27.78	4.92E-09
196975	1.26	0.05	23.77	3.21E-08
1453049	4.31	0.16	27.74	9.16E-09
1968695	2.01	0.07	30.29	2.40E-09
958344	10.67	0.11	100.25	8.10E-14
2820985	6.64	0.31	21.48	4.04E-08
1633393	2.80	0.04	62.93	4.73E-12
1806451	3.96	0.11	34.69	7.70E-10
2674772	9.66	0.15	64.17	3.99E-12
1376121	3.04	0.05	67.05	2.73E-12
831794	3.93	0.07	54.41	1.66E-11
1427681	8.17	0.15	52.87	2.13E-11
2912830	10.21	0.19	54.94	1.53E-11
504786	6.84	0.14	49.12	4.00E-11
254081	7.89	0.09	91.66	1.78E-13
1330674	7.28	0.27	27.09	6.06E-09
2377834	10.49	0.08	132.69	6.83E-15
2075464	7.13	0.12	61.36	5.89E-12
2383235	8.80	0.14	61.55	5.73E-12
1285503	1.07	0.16	6.72	3.18E-04
2383205	8.56	0.08	103.23	6.26E-14
2015871	0.76	0.28	2.71	3.41E-02
2374046	0.25	0.12	2.16	7.91E-02
1709828	1.54	0.06	25.45	1.01E-08
2061119	1.48	0.07	20.21	6.58E-08
3665105	5.13	0.15	34.78	7.55E-10
2068983	6.01	0.12	49.04	4.06E-11
2242648	4.90	0.12	41.17	1.81E-10
885032	4.17	0.15	27.40	5.52E-09
2383830	9.62	0.36	26.48	7.32E-09
2085191	10.37	0.09	119.16	1.77E-14
2792982	9.77	0.31	31.68	1.65E-09
179929	5.42	0.18	30.27	2.41E-09
2741788	2.88	0.05	53.93	1.79E-11
2373608	7.06	0.22	31.40	1.78E-09
2182095	13.19	0.26	51.25	2.78E-11
2923150	17.49	0.34	50.73	3.04E-11
293495	6.68	0.78	8.52	6.83E-05
4284270	5.92	0.18	33.45	1.05E-09
958923	2.30	0.14	16.98	4.57E-07

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
1921393	9.15	0.21	43.78	1.07E-10
1447866	1.52	0.07	21.82	3.56E-08
1666737	2.87	0.14	20.22	6.57E-08
586245	4.67	0.28	16.50	5.71E-07
194162	8.72	0.49	17.90	3.04E-07
243123	4.13	0.14	28.53	3.95E-09
382416	5.66	0.44	12.79	3.89E-06
1852659	4.73	0.19	24.47	1.40E-08
3220181	1.78	0.09	20.77	5.30E-08
1726307	2.30	0.05	45.27	8.05E-11
1904244	1.49	0.09	16.95	4.65E-07
2039955	3.05	0.11	27.19	5.87E-09
2675641	2.23	0.12	19.34	9.39E-08
1412749	2.58	0.06	42.61	1.35E-10
1963854	1.85	0.09	21.03	4.80E-08
2949085	1.39	0.07	20.01	7.15E-08
2963196	4.17	0.14	29.26	3.20E-09
1505977	4.36	0.20	22.00	3.33E-08
1674985	1.33	0.04	31.95	1.54E-09
2109054	2.60	0.12	20.99	4.87E-08
3317039	2.16	0.07	30.17	2.48E-09
2838551	1.00	0.05	19.36	9.30E-08
1477568	3.38	0.17	19.47	8.88E-08
2963871	1.59	0.04	40.44	2.11E-10
1740547	3.18	0.02	133.38	6.53E-15
2292011	5.13	0.49	10.51	1.60E-05
1349484	1.28	0.05	26.46	1.35E-08
1674253	1.65	0.06	28.15	4.41E-09
1932189	5.13	0.24	21.07	4.71E-08
1403041	3.36	0.35	9.69	2.84E-05
1486358	3.26	0.11	29.08	3.37E-09
1439065	1.19	0.05	21.71	6.66E-08
530629	2.83	0.19	14.94	1.22E-06
1672676	4.19	0.08	50.44	3.19E-11
1989129	3.08	0.14	21.69	3.73E-08
1486348	4.85	0.12	40.19	2.22E-10
1397294	3.23	0.18	18.26	2.60E-07
2844322	4.50	0.10	46.79	6.08E-11
1481440	2.69	0.13	20.45	6.01E-08
26459	2.26	0.11	20.02	7.11E-08
1406786	1.74	0.09	20.45	6.01E-08
1485846	13.79	0.09	155.44	1.68E-15
2153242	3.68	0.15	24.68	1.30E-08
2157981	4.43	0.28	15.59	8.82E-07
3244361	2.35	0.09	26.64	6.95E-09
1986737	3.57	0.20	17.42	3.76E-07
2506867	6.38	0.29	21.92	3.42E-08
1211682	5.24	0.10	54.00	1.77E-11
1416354	3.06	0.13	24.40	1.43E-08
2963962	2.75	0.08	34.00	9.13E-10
1761086	3.61	0.09	40.13	2.25E-10
2588552	4.95	0.23	21.57	3.91E-08
1901271	3.46	0.16	22.22	3.07E-08
1740924	2.32	0.08	27.25	5.77E-09
1480159	3.06	0.12	24.71	1.29E-08

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)										First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain		
2380381	1.65	0.20	-0.89	-0.30	-0.30	0.12	-0.77	0.85	0.83	-0.92	-0.84	-0.84		Heart
1618422	1.52	-1.16	0.93	0.04	-0.17	0.70	0.17	-1.08	-1.13	-0.18	0.05	0.48		Heart
2672064	2.10	-0.40	0.69	-0.74	-0.08	-0.44	0.40	-1.42	0.24	-1.66	-0.49	0.40		Heart
608361	1.98	0.20	0.65	-0.87	0.32	-0.02	-0.06	-0.51	-1.07	0.82	-0.15	-1.00		Heart
1922596	1.91	1.44	-1.81	-1.69	-0.60	-0.68	-1.61	1.42	0.77	-1.35	-1.47	0.83		Heart
1850033	3.78	0.67	0.02	-0.40	-0.12	-0.31	-0.67	-0.95	-0.87	-0.47	-0.56	-0.73		Heart
986987	5.33	0.26	-0.34	-0.64	-0.41	-0.70	-0.54	-0.81	-0.95	-0.75	-0.56	-1.07		Heart
718807	3.97	-0.17	-0.83	-0.31	-0.45	-0.62	-0.50	-0.83	-1.35	0.24	-0.82	1.20		Heart
2880435	2.07	-0.58	0.23	-0.49	-0.34	-0.16	-0.31	-0.55	-0.04	-0.49	-0.18	0.14		Heart
187326	5.39	1.41	-0.40	-0.66	-0.69	-0.88	-0.77	-0.78	-1.37	-0.50	-0.82	-1.07		Heart
1997963	2.95	2.64	-0.95	-0.90	-0.41	-0.48	-0.93	-1.25	0.31	-0.95	-1.64	-0.07	Sk Muscle	Heart
467700	4.14	2.42	0.61	-1.24	0.49	-0.07	-1.16	-1.32	-1.39	-0.97	-1.06	-1.56	Sk Muscle	Heart
57382	4.06	3.92	-0.77	-0.88	-0.29	-0.63	-1.72	-1.75	-0.46	-1.55	-1.72	-0.17	Sk Muscle	Heart
1222442	2.19	1.68	-1.66	-1.60	-0.29	-0.13	-1.52	0.27	0.90	-1.02	-1.06	-0.16	Sk Muscle	Heart
4013105	4.01	2.66	0.37	-0.76	-1.22	-1.77	-1.43	-1.92	0.39	-1.66	-0.50	-0.07	Sk Muscle	Heart
924319	5.61	3.10	-0.95	-0.92	-1.24	-1.38	0.98	-1.30	-1.73	-1.16	-1.26	-1.87	Sk Muscle	Heart
1645119	2.75	1.84	-0.69	-0.66	-0.80	-0.51	-0.84	-0.30	-0.46	-0.59	-0.65	-0.42	Sk Muscle	Heart
1379925	3.79	3.38	-0.81	-1.08	-0.95	-1.21	-1.08	-0.90	-0.79	-1.19	-0.46	-0.78	Sk Muscle	Heart
1900961	3.18	2.30	1.54	-0.62	-0.28	0.35	-1.44	-1.16	-0.96	-1.05	-1.24	-1.33	Uterus	Heart
3506985	2.79	2.50	-1.72	-2.06	-0.44	0.21	0.37	-1.24	-1.79	-1.64	2.04	-2.23	Spleen	Heart
551403	1.78	1.40	1.66	-0.15	0.50	-1.20	-1.18	-1.21	-1.16	0.17	-1.32	1.45	Uterus	Heart
3948420	2.03	1.78	1.93	0.00	0.87	-1.17	-1.05	-2.16	-1.31	0.19	-1.90	1.84	Brain	Heart
1722853	2.41	-0.27	-0.48	1.86	0.26	-0.55	-0.14	-0.54	0.03	-0.94	-1.14	0.03	Ovary	Heart
1557490	2.70	-0.60	0.95	-0.84	-0.11	-1.18	-0.74	-1.75	-0.25	-1.04	-0.07	1.94	Brain	Heart
3208425	1.31	2.87	-0.39	-0.70	-0.34	-0.05	-0.86	-1.59	0.11	-1.26	-1.36	0.69	Sk Muscle	Heart
1668474	1.37	3.73	-0.50	-0.36	-0.22	-0.86	-0.84	-0.87	-1.10	-0.42	-0.51	-0.18	Sk Muscle	Heart
1622542	-0.24	2.06	-0.66	-0.66	-0.34	0.05	-0.68	-0.79	-0.66	-0.43	0.09	1.19	Sk Muscle	Heart
4014318	-0.24	3.10	0.17	0.10	-0.16	-0.35	-0.41	-0.43	-0.66	-0.16	-0.05	-0.96	Sk Muscle	Heart
2394888	-1.00	3.41	-0.90	-0.84	-1.11	-1.14	-0.12	0.02	0.46	-1.39	-0.77	1.23	Sk Muscle	Heart

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
1345550	-0.59	6.89	0.09	-0.84	-0.69	-0.92	-0.35	-0.84	-1.39	-1.15	-0.62	-1.12	Sk Muscle			
1719955	1.25	4.16	-1.39	-1.25	-1.08	-1.21	-0.40	-0.09	0.16	-1.84	-1.49	0.30	Sk Muscle			
2256026	0.01	3.03	0.13	-0.10	-0.46	-0.37	-0.48	-0.32	-0.75	0.13	-0.27	-0.64	Sk Muscle			
1538086	0.13	2.04	-0.91	-0.74	-0.65	-0.73	-1.04	1.46	0.17	0.26	-0.81	-0.01	Sk Muscle			
958633	0.99	1.57	0.44	0.74	-0.61	-0.63	-0.53	-0.77	0.06	0.30	-0.77	-0.16	Sk Muscle			
2635943	0.59	5.72	-0.26	-0.76	-0.34	-0.47	-1.10	-0.92	-1.21	-1.32	-0.94	-0.57	Sk Muscle			
121888	1.23	5.92	-0.61	-0.55	-0.43	-1.24	-0.92	-0.72	-1.13	-0.90	-0.96	-0.99	Sk Muscle			
1627492	0.30	2.40	0.10	0.85	-0.41	-0.15	-0.69	-0.90	-0.11	-0.83	-0.73	0.08	Sk Muscle			
4073867	0.35	1.62	-0.56	-0.18	-0.45	-0.18	-1.16	1.37	0.61	-0.67	-0.73	-0.92	Sk Muscle			
2190170	0.20	2.24	0.39	0.43	-0.31	-0.25	-0.28	-1.05	-0.29	-1.01	-0.44	0.01	Sk Muscle			
972224	0.44	6.70	0.13	-0.38	-0.09	-0.68	-0.89	-1.14	-1.21	-1.45	-1.08	-1.56	Sk Muscle			
1413644	0.61	3.15	0.36	-0.74	-0.26	-0.14	-1.19	-1.37	-0.85	-1.26	-0.96	1.36	Sk Muscle			
1538224	1.11	1.71	-0.07	-0.33	-0.82	-0.61	0.06	-0.11	-0.11	-0.65	-0.70	-0.44	Sk Muscle			
2623268	0.14	2.07	0.97	0.23	0.65	-0.15	-0.61	-1.52	-0.23	-1.65	-0.74	0.44	Sk Muscle			
1665533	0.46	1.93	-0.12	-0.24	-0.46	-0.41	0.02	-0.83	0.02	-0.47	-0.14	-0.41	Sk Muscle			
981484	-0.04	2.58	-0.54	-0.60	-0.05	-0.33	-0.40	-0.41	-0.49	-0.10	-0.28	0.00	Sk Muscle			
973629	0.70	6.01	-0.53	-0.77	-0.35	-0.67	-1.03	-1.15	-1.02	-1.01	-0.55	-1.09	Sk Muscle			
1539638	-0.34	1.69	0.64	0.51	0.05	0.28	-0.04	-1.22	0.04	-1.21	-0.58	-0.06	Sk Muscle			
3015758	0.08	5.84	-0.58	-0.53	-0.48	-0.99	-0.83	-0.67	-1.21	0.29	-0.45	-0.98	Sk Muscle			
2832314	0.76	1.81	0.00	-0.19	-0.19	-0.23	-0.02	-2.79	0.85	-2.07	-0.55	1.05	Sk Muscle			
1702996	0.08	2.32	1.21	-0.20	0.46	-0.04	-0.39	-1.14	-0.50	-0.64	-0.92	-0.25	Sk Muscle			
839947	-0.11	2.43	-1.06	-1.33	-0.14	-0.37	-0.19	-0.25	-0.44	-0.37	-0.19	0.48	Sk Muscle			
1867522	0.02	7.47	-1.55	-1.81	-0.56	-1.54	-0.75	-0.41	-0.97	-1.23	-0.73	-0.67	Sk Muscle			
1987831	0.25	1.63	0.00 x		-0.32	-0.37	-0.50	-1.00	-0.76 x	-0.28	1.24		Sk Muscle			
2639708	0.36	5.54	-0.42	-0.82	-0.66	-0.56	-0.83	-0.92	-1.06	-0.53	-0.56	-0.79	Sk Muscle			
973815	0.84	5.96	-0.04	-0.41	-0.44	-0.88	-0.80	-1.33	-1.43	-0.90	-0.80	-0.80	Sk Muscle			
169884	2.50	4.51	-1.30 x		-0.70	-0.90	-1.18	-0.81	-1.64 x	-0.79	-0.38		Sk Muscle	Heart		
2638235	2.16	2.34	-0.60	-0.88	0.18	-0.67	0.02	-0.69	-0.48	-0.49	-0.92	-1.02	Sk Muscle	Heart		

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)											First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain			
305198	3.03	3.74	-0.67	-1.25	-0.33	-0.91	-0.81	-0.94	-1.29	-0.71	-0.83	-0.67	Sk Muscle	Heart	
57997	1.82	4.08	-0.15	-0.67	0.29	-0.88	-1.08	-0.88	-0.96	-0.27	-0.80	-1.08	Sk Muscle	Heart	
986558	3.20	3.44	-0.10	-0.43	-0.21	-0.71	-1.21	-1.40	-0.84	-1.21	-1.23	-0.50	Sk Muscle	Heart	
224996	1.53	4.47	1.46	-0.90	0.54	-0.03	-0.35	-1.98	-1.88	-1.95	-1.36	-0.79	Sk Muscle	Heart	
661259	1.60	1.81	-0.74	-1.14	-0.35	-0.84	-1.33	1.29	0.57	-1.71	-1.45	0.03	Sk Muscle	Heart	
3246379	1.70	3.14	-0.33	-0.97	-0.50	-0.65	-0.87	-1.07	-0.99	-1.10	-0.72	0.71	Sk Muscle	Heart	
78783	1.54	2.12	0.11	-0.01	0.37	-0.10	0.32	-1.63	-0.15	-1.48	-0.19	-1.74	Sk Muscle	Heart	
2639181	5.65	6.89	-1.34	-1.35	-1.79	-1.28	-1.66	-1.50	-1.99	-1.38	-1.14	-1.97	Sk Muscle	Heart	
1672467	3.49	4.45	-0.15	-1.23	-0.83	-0.95	-1.54	-0.15	-1.51	-0.47	-1.33	-1.24	Sk Muscle	Heart	
2950063	3.16	5.44	-0.22	-0.26	-0.51	-1.63	-0.90	-0.76	-1.76	-0.92	-1.16	-1.50	Sk Muscle	Heart	
3288518	2.63	7.79	-0.41	-0.89	-1.04	-1.89	-1.12	-1.46	-1.24	-1.58	-1.02	-1.90	Sk Muscle	Heart	
184110	4.64	6.08	-1.14	-1.40	-0.42	-1.46	-0.88	-1.08	-2.10	-1.61	-1.08	-2.07	Sk Muscle	Heart	
1368173	1.89	3.01	-0.19	0.11	-0.63	-0.64	-0.91	-1.79	0.12	-1.53	-1.20	0.55	Sk Muscle	Heart	
1813409	1.60	2.68	-0.93	-1.60	0.42	-0.45	-1.21	-0.64	1.07	0.10	-1.32	-0.89	Sk Muscle	Heart	
58309	4.05	5.75	-1.98	-1.99	-0.46	-1.25	-1.29	-0.93	-0.92	-1.29	-1.32	-1.37	Sk Muscle	Heart	
1721744	1.83	1.95	0.38	-0.19	-0.45	-0.66	-0.71	-0.56	-0.86	0.45	-1.23	0.20	Sk Muscle	Heart	
1924344	0.70	4.20	1.63	-0.30	0.40	0.16	-1.00	-1.16	-1.79	-1.41	-0.50	-1.39	Sk Muscle	Uterus	
3176845	0.92	4.37	3.13	1.01	1.00	0.65	-1.00	-2.44	-1.51	-2.31	-1.45	-1.86	Sk Muscle	Uterus	
2286809	1.31	3.52	-1.62	-1.36	-0.75	-0.60	-2.37	0.81	1.69	-1.36	-2.06	0.19	Sk Muscle	Kidney	
1985244	0.70	3.13	-0.61	-0.07	-0.79	-0.52	-0.92	0.70	-0.16	1.73	-1.64	-0.93	Sk Muscle	Pancreas	
1570042	0.42	2.41	-0.39	-0.57	-0.66	-0.90	-0.81	-0.61	-0.89	-0.50	-0.16	1.61	Sk Muscle	Brain	
2079906	-0.86	-0.62	2.72	1.19	0.56	1.24	0.02	-0.55	-0.47	-1.40	-0.34	-0.55	Uterus		
2852042	-1.06	-1.16	3.56	0.89	1.43	1.17	0.06	-1.84	-0.72	-1.09	-0.57	0.86	Uterus		
1319020	1.84	0.73	2.47	1.35	0.13	-0.22	-0.28	-1.91	-0.15	-1.51	-1.05	-0.65	Uterus	Heart	
1572555	1.86	1.72	2.67	0.89	0.98	1.57	-0.79	-2.58	-0.92	-1.14	-1.30	-1.91	Uterus	Heart	Sk Muscle
782235	-0.33	-0.47	4.14	2.86	0.71	0.25	0.87	-1.33	-0.49	-1.20	-0.50	-1.77	Uterus	Ovary	Intestine
1314882	0.56	0.23	3.44	2.53	0.63	0.64	0.88	-1.73	-0.91	-1.39	-0.80	-1.95	Uterus	Ovary	
1403636	-0.25	0.94	2.31	2.07	0.74	0.56	0.00	-1.93	-1.36	-1.75	-0.46	0.35	Uterus	Ovary	

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)											First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain			
1968921	0.01	-0.21	1.86	1.57	0.08	0.19	-0.26	-0.81	-0.09	-0.74	0.14	-0.54	Uterus	Ovary	Intestine
1558081	0.59	0.19	2.44	1.74	0.66	0.26	0.55	-1.56	-0.11	-1.01	-0.71	-1.52	Uterus	Ovary	
2495131	0.58	1.51	2.74	2.30	0.11	0.08	0.45	-1.62	-1.36	-2.38	-0.87	-0.64	Uterus	Ovary	
4049957	-0.58	-0.62	4.73	2.60	1.88	1.84	0.24	-2.47	-0.57	-2.17	-0.76	-1.63	Uterus	Ovary	
1686585	-0.02	1.11	2.99	2.81	0.94	-0.10	-1.37	-2.09	1.54	-1.33	-1.27	-0.90	Uterus	Ovary	
2696735	0.30	-0.61	4.57	0.80	2.40	1.91	-1.06	-1.57	-1.14	-1.02	-1.03	-1.37	Uterus	Stomach	
1720149	-1.28	-1.13	3.60	1.31	1.48	1.87	-0.03	-0.93	-0.33	-1.69	-0.53	-0.91	Uterus	Intestine	
1866751	-0.77	-0.09	4.21	0.72	2.33	2.66	-0.55	-1.78	-1.11	-1.54	-0.75	-1.70	Uterus	Intestine	
1851696	0.88	-0.24	2.62	1.21	0.91	1.36	1.71	-1.29	-1.08	-1.86	-2.05	-1.41	Uterus	Lung	
93820	-0.71	-0.63	3.62	-0.24	-0.98	-0.88	-1.47	-1.08	1.31	-1.07	-1.11	3.25	Uterus	Brain	
2368282	-0.17	0.06	-0.02	4.25	0.01	-0.19	-0.21	-0.12	-0.47	0.02	0.09	-0.41	Ovary	Ovary	
2831248	-0.15	-0.19	1.08	2.34	0.17	-0.15	0.35	-1.02	0.19	0.12	0.07	-0.76	Ovary	Ovary	
182802	-0.14	0.11	-0.44	4.23	0.41	1.07	-0.55	-0.32	-0.32	-0.15	-0.72	-0.46	Ovary	Ovary	
1003884	0.53	-0.54	1.46	1.72	0.23	0.36	0.79	-1.48	1.00	-0.77	-0.36	-1.73	Ovary	Ovary	
1120	-0.29	0.20	0.65	2.02	-0.07	-0.21	-0.17	-0.43	0.16	1.22	0.27	-1.00	Ovary	Ovary	
1308542	1.52	-0.36	-0.69	1.55	0.54	-0.35	-0.37	0.46	-0.67	0.90	-0.41	-0.53	Ovary	Ovary	
3820761	1.30	0.65	2.23	2.98	0.57	0.49	0.70	-1.45	0.35	-1.14	-2.57	-1.94	Ovary	Heart	
1999167	0.22	-1.37	1.62	1.66	0.34	0.15	-0.09	1.02	1.13	-1.40	-0.50	-1.94	Ovary	Uterus	
1522716	0.17	0.12	2.47	3.45	0.55	0.14	0.67	-2.58	-0.51	-1.39	0.48	-1.19	Ovary	Uterus	
1612969	0.08	-0.20	0.68	3.45	-0.22	-0.51	-0.54	-0.30	-0.32	1.82	-0.24	-0.05	Ovary	Pancreas	
337500	-1.02	-1.21	1.12	2.43	0.43	0.18	-0.10	-0.22	0.34	1.62	0.42	-0.77	Ovary	Pancreas	
1285380	-0.14	-0.45	-0.35	-0.62	2.14	-0.17	0.32	-0.41	-0.22	-0.25	0.31	-0.14	Stomach	Stomach	
1636639	0.88	-0.51	0.87	-0.52	2.13	0.64	0.07	-0.88	-1.14	1.29	-0.67	-0.66	Stomach	Stomach	
1985870	-0.45	-0.60	-0.43	-0.58	1.92	0.73	0.58	-0.68	-0.83	-0.75	1.15	-0.45	Stomach	Stomach	
1677936	-0.85	-0.24	-0.52	-0.58	8.48	0.86	-0.74	-0.72	-1.47	-0.51	-0.32	-1.46	Stomach	Stomach	
910612	-0.22	0.01	-0.41	-0.27	8.04	0.79	-0.76	-1.18	-1.37	-0.76	-0.67	-1.33	Stomach	Stomach	
2594407	-1.02	-0.40	-0.99	-1.22	8.00	0.52	1.10	-1.00	-0.98	-0.95	-0.79	-1.38	Stomach	Stomach	
963536	-0.15	-0.04	-0.54	-0.74	5.80	0.89	-0.64	-0.57	-1.05	-0.69	-0.61	-0.86	Stomach	Stomach	

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)											First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	Intestine	Intestine	Liver
2252895	-0.27	0.21	-0.77	-0.93	4.13	2.64	-0.95	-0.99	-0.64	-0.75	-0.72	-0.94	Intestine		
2804190	-0.39	-0.33	-0.36	-0.26	2.01	1.57	-0.07	-0.69	-0.60	-0.46	-0.04	-0.32	Intestine		
1998428	-1.03	-0.23	-0.85	-0.77	4.74	2.37	1.08	-0.82	-1.01	-0.20	-0.92	-1.70	Intestine		
1800114	-1.28	-0.93	-0.94	-1.09	2.37	2.34	0.79	-0.70	1.01	-1.09	-0.41	-1.05	Intestine		
1806769	-0.94	-0.15	-0.80	-0.59	3.14	2.27	2.06	-0.91	-0.96	0.18	-1.33	-1.45	Intestine		
2474163	-0.62	0.16	-1.40	-1.02	2.85	-1.12	-0.49	0.44	1.65	-0.33	-1.20	0.67	Intestine	Lung	
1435374	-1.67	-1.61	-1.56	-0.58	2.16	1.78	1.35	1.62	1.25	-1.83	-1.16	-2.36	Kidney		
434377	0.10	0.13	0.04	-0.71	-0.81	2.29	1.24	-0.86	-1.03	-1.43	0.94	-1.59	Pancreas	Intestine	
2121863	-0.05	0.06	1.20	-0.05	1.20	2.51	0.88	-1.69	-0.39	-1.93	-0.40	-1.85	Intestine		
1597231	1.33	0.66	-1.34 x		-0.57	1.71	-1.23	1.43	-1.18 x		-1.38	-0.08	Intestine		
4174437	-0.99	-0.03	-0.66	-0.58	0.09	6.41	-0.38	-0.99	-1.54	-1.25	-0.22	-1.27	Intestine		
2182901	-0.75	0.32	-0.21	-0.72	-0.06	6.43	-0.72	-0.99	-1.49	-1.22	-0.72	-1.26	Intestine		
1747979	-0.87	-0.68	0.13	-0.34	0.36	1.62	-0.16	-0.69	-0.63	-0.34	1.30	0.02	Intestine		
1630553	-0.37	-0.17	-0.12	-1.19	-0.64	3.81	0.37	-0.79	-0.41	-0.49	-0.87	-0.51	Intestine		
478960	-0.60	-0.21	-0.65	-0.83	0.72	1.91	0.16	-0.58	0.73	1.08	-0.60	-0.94	Intestine		
2132487	-0.40	0.07	-0.72	-0.81	0.25	2.68	-0.35	-0.03	-0.87	0.78	-0.35	-0.40	Intestine		
2921152	-0.42	-0.07	-0.85	-0.71	-0.15	5.47	-0.61	-0.68	-1.00	-0.81	-1.03	-0.48	Intestine		
1846428	-1.05	0.55	-0.20	-0.37	-0.83	4.38	-0.38	-0.08	-0.52	-0.32	-0.93	-1.05	Intestine		
2796143	-0.68	-1.30	-1.58	-0.15	0.81	1.58	1.05	-1.55	1.36	0.91	-0.26	0.06	Intestine		
1805613	-0.59	0.35	-0.38	-0.42	0.01	3.29	-0.32	-0.42	-0.90	-0.50	-0.34	-0.51	Intestine		
1431273	-0.26	-0.20	-0.81	-0.69	0.00	4.52	-0.51	-0.74	-0.97	-0.09	-0.44	-0.59	Intestine		
1804662	-0.24	-0.36	-0.81	-0.68	-0.19	2.23	-0.94	1.11	0.51	-0.38	-0.66	-0.63	Intestine		
2921194	0.25	-0.38	1.06	1.27	1.00	2.36	0.74	-1.91	-0.25	-1.42	-0.70	-1.45	Intestine		
395368	-1.25	-0.59	-1.08	-0.91	0.01	4.57	-0.26	-0.95	1.19	-0.82	-0.14	-1.28	Intestine		
2182861	-0.11	0.17	-0.19	-0.25	-0.24	2.15	-0.52	-0.18	-0.31	-0.13	-0.27	-0.51	Intestine		
1806436	-0.44	-0.77	-0.19 x		-0.74	2.24	-0.94	0.60	0.60 x		-0.43	-0.24	Intestine		
2922143	-0.27	-0.56	-1.19	-1.48	0.57	5.23	-0.85	-0.43	-0.99	-0.80	-0.72	-0.23	Intestine		
1696001	-0.18	-0.63	-0.91	-1.24	-0.11	3.01	-0.75	0.09	0.41	0.15	-0.40	-0.51	Intestine		



Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)											First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain			
1635004	-1.17	-0.42	-1.16	-0.93	2.81	4.64	-0.85	0.03	-1.58	0.01	-0.20	-1.23	Intestine	Stomach	Pancreas
2132752	-1.41	-0.38	-0.65	-0.11	3.20	4.19	-0.36	-1.12	-0.55	-0.62	-0.60	-1.22	Intestine	Stomach	
1734393	-0.90	-0.40	-1.03	-0.46	3.07	4.66	-0.97	-0.75	-1.25	0.05	-0.88	-0.74	Intestine	Stomach	
4179338	-0.66	-1.35	-2.01	-2.02	-0.67	5.83	-1.52	5.72	-1.81	-1.66	-1.65	-1.55	Intestine	Liver	
1427623	-0.78	-0.68	-0.96	x	-0.38	3.63	-1.29	2.56	-0.33	x	-1.11	-1.11	Intestine	Liver	
3320987	-0.84	-0.75	0.84	-1.27	-1.16	3.89	-1.23	-0.15	2.47	-1.62	-0.22	-1.99	Intestine	Kidney	
2239819	-0.98	-0.11	-1.12	-1.14	-0.85	3.63	-1.12	-0.88	2.68	2.13	-1.02	-1.21	Intestine	Kidney	
876720	-0.41	-0.37	-0.42	-0.58	-0.57	-0.44	3.45	-0.26	-0.50	-0.42	0.01	-0.49	Lung		
1910091	-0.31	-0.05	-0.23	-0.64	-0.47	-0.31	2.13	-0.60	-0.47	-0.28	-0.43	0.81	Lung		
2174130	-0.54	-0.18	-0.05	0.96	0.69	0.19	1.53	-0.72	-0.44	-0.67	0.40	-0.76	Lung		
2219077	0.35	-0.33	-0.02	0.05	-0.32	-0.42	2.07	-0.17	-0.36	-0.44	-0.16	-0.62	Lung		
1965041	0.63	0.06	0.31	-0.75	-0.84	-1.16	1.83	-0.93	0.76	-0.75	0.54	-0.88	Lung		
1649959	-0.98	-0.10	-0.62	-0.99	0.86	0.64	2.91	-0.32	0.71	-0.38	-1.27	-1.30	Lung		
1222317	0.01	-0.03	0.56	-0.98	0.16	0.13	2.15	-1.40	-0.21	-0.91	0.61	-1.11	Lung		
2510171	-0.48	-0.41	-1.08	-1.20	0.71	-0.67	3.38	0.43	0.16	-0.20	-0.94	-0.74	Lung		
1988674	-0.75	-0.48	-0.40	-0.64	-0.16	0.02	2.93	-0.47	-0.67	-0.51	0.42	-0.25	Lung		
1672640	1.48	0.55	1.07	0.52	-0.27	-0.50	1.62	-1.65	-1.31	-1.22	0.51	-1.00	Lung		
1749417	-1.09	-1.44	-0.37	-0.36	0.29	-0.28	2.35	-0.21	2.23	-0.89	-0.37	-0.72	Lung		
1926543	-0.06	-0.67	-0.86	-0.64	-0.25	-0.01	-0.41	2.06	0.89	-0.32	-0.37	-0.37	Liver	Kidney	
1504934	-0.39	0.09	-0.47	-0.20	-0.82	-0.85	-0.90	4.76	0.13	-0.53	-0.75	-0.99	Liver		
2512879	-0.69	-0.39	-0.31	-0.51	0.76	0.37	0.99	3.69	-0.67	-1.60	-0.49	-2.40	Liver		
1359832	-0.16	-0.67	0.00	-0.27	0.65	0.47	1.33	4.09	-0.31	-1.78	-0.93	-3.57	Liver		
1583076	-0.46	-0.73	-0.49	-0.69	1.12	0.66	0.83	3.73	-0.60	-1.46	-0.74	-2.40	Liver		
139838	-0.37	-0.49	-1.25	-0.60	-0.40	-0.70	-0.61	5.66	-0.76	-0.52	-0.51	-0.75	Liver		
1344654	-0.71	-0.46	-0.67	-0.71	-0.83	-0.70	-0.25	3.71	1.41	-0.51	-0.58	-1.02	Liver		
2513979	-0.73	0.06	-0.56	-0.32	-0.56	-1.00	-0.56	6.13	-0.83	-0.91	-0.90	-1.02	Liver		
2369312	-1.30	-0.46	-0.91	0.66	-1.07	-1.77	0.95	5.81	-1.91	-1.74	1.06	-0.70	Liver		
2048364	-0.83	-0.10	-1.45	-1.20	-1.00	-0.63	-0.30	6.12	-0.95	-0.93	-1.18	0.20	Liver		

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)											First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain			
85246	-0.90	-0.33	-1.05	-0.65	-0.54	-1.19	-0.63	7.05	-0.41	-0.51	-0.92	-1.21	Liver		
166337	-0.77	-0.06	-0.10	-0.24	-0.13	-0.48	-0.26	4.48	-1.20	-0.24	-0.25	-1.16	Liver		
138274	-0.27	0.08	-0.38	-0.46	-0.38	-0.40	-0.34	3.03	-0.75	-0.29	-0.24	-0.35	Liver		
1633340	-0.23	-0.59	-0.87	-0.87	-0.40	1.41	-0.99	3.94	-0.90	-0.54	-0.62	-0.69	Liver		
1982416	0.14	-0.76	-1.22	-1.27	-0.21	-0.35	-0.48	3.52	-0.68	-0.22	0.28	-0.22	Liver		
946822	0.16	0.07	-0.09	0.42	-0.27	0.02	-0.39	1.50	-0.21	-0.33	-0.48	-0.46	Liver		
2517330	-0.01	-0.50	-0.73	-0.81	-0.22	0.21	-0.23	1.82	-0.38	0.17	-0.15	0.08	Liver		
2516489	-0.40	-0.39	-0.68	-0.78	-0.68	-0.59	-0.35	3.26	0.82	-0.25	-0.59	-0.53	Liver		
88741	-0.13	-0.06	-0.60	-0.21	-0.79	-0.73	-0.42	4.50	-0.86	-0.21	-0.65	-0.59	Liver		
168865	-0.27	-0.69	-1.16	-1.21	0.52	0.30	-0.67	4.70	-1.02	-0.64	-0.54	-0.78	Liver		
231779	-0.54	-0.69	-0.45	-0.38	0.01	0.56	-0.51	2.40	-0.26	-0.61	0.13	-0.48	Liver		
234123	0.31	-0.76	-1.03	-0.81	-0.44	0.52	-0.73	1.76	1.41	0.26	-0.83	-0.52	Liver		
1833801	-0.31	0.15	-0.66 x	-0.19	0.46	-0.70	2.06	0.74 x			-1.03	-0.80	Liver		
1923613	-0.15	0.15	-1.03	-0.29	-0.46	-1.05	-0.07	2.86	1.15	-0.95	-0.90	-0.57	Liver		
2058620	0.70	0.54	-0.52	0.01	-0.61	-0.42	-0.81	1.67	1.17	-0.84	-0.78	-1.05	Liver		
1930954	0.07	0.28	-0.37 x	-0.24	0.14	-0.72	2.27	0.59 x			-0.94	-1.29	Liver		
1511658	-0.75	-0.43	-1.06	-0.94	0.28	-1.17	-1.10	7.16	-0.48	-0.40	-0.93	-1.32	Liver		
2590673	-0.13	-0.44	-0.77	-0.63	0.06	-0.72	-0.34	4.00	0.15	-0.16	-0.92	-0.85	Liver		
1995380	-0.93	-1.08	-0.99	0.65	0.19	0.19	1.17	2.39	1.01	-0.29	-1.76	-0.58	Liver		
167409	-0.89	-0.47	-0.85	-0.38	0.85	-0.77	-1.25	6.45	-1.16	1.26	-0.81	-1.41	Liver		
1846226	-1.25	-1.28	0.40	0.85	0.01	0.48	-0.40	1.63	0.90	-0.99	-0.82	0.52	Liver		
2052185	-0.85	-0.01	-0.56	-0.73	-1.03	-0.64	-0.53	6.30	-1.16	-0.31	-0.70	-1.00	Liver		
2517389	-0.26	-0.47	-0.83	-0.79	-0.26	-0.65	-0.78	4.45	-0.06	-0.32	-0.49	-0.66	Liver		
911015	-0.98	-0.44	-0.70	-0.54	-0.20	0.01	-0.55	3.18	1.44	-0.45	-0.64	-1.08	Liver		
604856	0.16	-0.30	-0.65	-0.50	0.26	-0.75	0.25	3.02	-0.52	-0.38	-0.17	-1.14	Liver		
1448718	-0.85	0.04	-0.15	-0.04	-0.03	-0.43	-0.67	3.99	-0.81	-0.04	-0.40	-0.72	Liver		
2517268	-0.12	-0.10	-0.69	-0.81	-0.19	-0.61	-0.76	4.71	-1.02	-0.48	-0.41	-0.66	Liver		
167134	0.28	-0.46	-1.10	-1.18	0.17	-0.47	-0.91	4.71	-1.04	-0.43	-0.46	-0.50	Liver		

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth	
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain					
2843638	-0.16	-0.58	-0.31	0.59	-0.17	-0.39	0.38	2.48	-0.65	-0.43	-0.41	-0.39	Liver				
1813269	-0.56	-0.93	0.88	-0.91	-0.77	0.22	1.28	4.75	-2.04	-1.42	0.15	-2.16	Liver				
1861971	-0.65	-0.21	-0.56	-0.61	-0.20	-1.47	0.00	7.31	-1.51	-1.21	-1.06	-1.30	Liver				
2005973	-0.27	-0.74	-1.13	-1.29	0.50	0.27	-0.45	3.49	-0.02	-0.37	-0.60	-0.70	Liver				
2515729	-0.71	-0.50	-1.08	-1.45	-0.83	-0.63	-0.89	5.52	0.49	-0.02	-1.14	-0.37	Liver				
2132356	-0.74	0.06	-0.49	x	-0.61	-0.67	-0.57	3.29	0.72	x	-0.65	-0.70	Liver				
1001726	-0.45	-0.48	-0.42	x	-0.56	-1.05	-0.05	2.77	1.16	x	-1.01	-0.24	Liver				
2631845	-0.79	0.09	-0.72	-0.89	0.08	0.12	0.59	3.77	-0.51	-0.95	-0.86	-1.38	Liver				
86390	-0.45	0.02	-0.22	-0.11	-0.06	-0.56	-0.31	3.84	-1.03	-0.48	-0.14	-1.00	Liver				
1287840	0.02	-0.31	-0.17	0.16	0.09	0.48	-0.54	1.54	0.51	-0.56	-0.81	-0.68	Liver				
2516905	-0.05	-0.27	-0.75	-1.04	-0.09	-0.45	-0.48	3.16	-0.72	0.02	-0.21	-0.09	Liver				
606122	-0.25	-0.44	-0.74	-0.70	-0.15	-0.22	-0.43	3.46	-0.52	-0.12	-0.33	-0.39	Liver				
3553733	-0.65	0.18	-0.81	-0.94	-0.35	-0.51	-0.17	3.08	-0.01	-0.41	-0.43	-0.27	Liver				
1813381	0.51	-0.05	-0.60	-0.21	-0.75	-1.01	-0.98	5.36	-0.91	-0.21	-0.67	-1.19	Liver				
1988108	-1.05	-0.87	1.08	2.06	-0.33	-0.38	-0.08	2.29	0.39	1.17	-0.43	-1.45	Liver	Ovary			
1644648	-1.33	-0.54	-1.07	1.84	0.38	1.65	-1.07	2.45	1.62	0.38	-1.53	-1.54	Liver	Ovary	Intestine		
2516104	-0.66	-0.08	-0.73	-0.39	-0.76	3.04	-1.33	5.15	-1.62	-1.11	-1.40	-1.62	Liver	Intestine	Intestine		
2516448	-0.37	0.11	-0.57	-0.63	-1.01	1.62	-0.90	3.73	-1.10	-0.45	-0.72	-0.95	Liver	Intestine	Intestine		
2514507	-1.15	0.20	-0.32	-0.32	-0.88	2.14	-1.21	5.48	-1.52	-0.92	-1.19	-1.54	Liver	Intestine	Intestine		
1427470	-0.58	-0.74	-1.04	0.86	0.53	1.70	-0.32	2.46	-1.31	0.65	-0.55	-0.83	Liver	Intestine	Intestine		
1311471	-1.04	-0.28	-0.17	-0.39	-0.48	1.74	-1.07	4.88	-1.26	-0.44	-1.00	-1.26	Liver	Intestine	Intestine		
195142	-1.29	-0.57	-1.38	-1.27	1.24	1.93	-1.15	5.03	-0.97	-0.64	-1.10	-1.15	Liver	Intestine	Intestine		
29598	-1.80	-0.91	-1.26	-0.33	1.25	3.21	-1.11	5.21	-0.71	-1.12	-1.22	-2.18	Liver	Intestine	Intestine		
1968576	-1.18	-0.86	-1.29	-1.09	0.29	1.55	0.55	2.33	1.23	-0.78	-0.79	-1.54	Liver	Intestine	Intestine		
2959255	-1.41	-0.90	0.18	1.00	-0.78	1.67	-0.64	1.93	-0.05	-1.53	0.76	-0.78	Liver	Intestine	Intestine		
446969	-1.32	-1.59	-1.96	-2.08	-0.05	1.82	0.56	4.44	0.60	-0.90	-0.77	-1.42	Liver	Intestine	Intestine		
1631511	-1.54	-1.21	-1.72	-1.27	-0.69	2.70	-0.22	2.95	2.04	-0.86	-0.78	-1.62	Liver	Intestine	Intestine	Kidney	
1508741	-0.71	-0.32	-1.29	-0.48	-0.93	-1.23	1.65	5.17	-1.18	0.15	-0.85	-0.93	Liver	Lung			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
2513602	-0.49	-0.42	-0.69	-1.00	-0.78	-1.08	-1.29	3.82	2.96	-0.80	-0.87	-1.06	Liver	Kidney		
1981145	-0.64	-0.78	-0.63	-0.88	-0.86	0.71	-0.85	3.15	2.45	-0.88	-1.37	-1.07	Liver	Kidney		
2103752	-0.74	-1.31	-1.12	0.40	-0.16	0.43	0.89	2.03	1.71	0.52	-0.92	-1.53	Liver	Kidney		
2658782	-0.95	-1.13	-1.84 x		-0.82	1.01	-1.04	3.58	2.62 x		-1.42	-0.89	Liver	Kidney		
2099420	-0.43	-0.71	-1.28	-1.39	-0.90	-0.51	-0.64	3.00	2.74	-0.25	-0.94	-0.50	Liver	Kidney		
637639	-0.73	-0.60	-0.88	-0.77	-0.72	-1.32	-0.90	3.99	2.55	-0.98	-0.46	-0.88	Liver	Kidney		
279249	-0.49	-0.82	-1.28	-0.90	-0.88	-1.23	-1.55	4.71	3.73	-1.25	-0.94	-1.25	Liver	Kidney		
1379063	-1.65	-0.73	-0.97	-0.74	-0.21	0.25	-0.49	3.34	2.32	-0.29	-0.74	-1.17	Liver	Kidney		
89747	-0.93	-0.66	-1.22	-1.30	-1.00	-1.09	-1.33	4.91	3.18	-0.15	-1.11	-1.01	Liver	Kidney		
2515873	-0.70	-0.44	-0.49	-0.57	-0.97	-1.06	-0.93	3.83	2.18	-1.10	-1.08	-0.26	Liver	Kidney		
1432372	-1.30	-0.96	-1.53	-1.35	0.66	0.84	0.84	2.00	1.75	-0.77	-0.65	-1.22	Liver	Kidney		
1633719	-1.13	-0.86	-1.62	-1.39	-0.98	1.29	-1.48	4.28	3.36	-0.23	-1.44	-1.74	Liver	Kidney		
1712663	-0.56	-0.60	-0.62	-0.44	-0.03	-0.57	0.01	3.71	-0.68	1.95	-0.66	-0.72	Liver	Pancreas		
4285203	-0.83	1.26	-0.25	-1.06	-0.75	-0.17	-0.60	3.32	-0.90	1.96	-0.80	-0.90	Liver	Pancreas		
1634342	-0.85	-1.03	-0.60	-0.22	0.10	0.81	0.08	1.00	1.86	-0.22	-0.71	-0.70	Kidney			
1418871	-0.23	0.00	-0.42	-0.68	-0.45	-0.58	-0.26	-0.18	3.31	-0.27	-0.64	-0.52	Kidney			
3766382	-0.73	-0.61	0.43	-0.51	0.15	0.05	-0.32	-0.43	2.23	-0.14	0.11	-0.47	Kidney			
943181	-0.06	0.01	-0.43	-0.43	-0.30	-0.45	-0.63	-0.65	3.37	-0.23	-0.42	-0.46	Kidney			
603761	-0.82	-0.17	-0.79	x	-0.30	-0.86	-0.54	-0.57	3.77	x	-0.40	0.32	Kidney			
1297562	0.76	-0.53	0.95	-0.21	-1.08	-1.15	1.34	-1.81	2.23	1.04	-0.85	-0.17	Kidney			
2910715	-0.56	-0.53	-0.86	-1.34	0.67	-0.86	0.92	-0.39	2.73	1.00	-0.13	-0.93	Kidney			
196975	0.18	-0.20	-0.48 x		-0.11	-0.20	-0.66	0.50	1.58 x		-0.40	-0.41	Kidney			
1453049	-0.66	-0.55	-0.91 x		1.16	0.46	1.41	-0.76	2.28 x		-0.99	-1.35	Kidney			
1968695	-0.49	-0.44	0.06	-0.18	-0.18	1.44	-0.05	-0.86	1.73	-1.01	0.02	-0.87	Kidney			
958344	-0.03	-0.31	-0.98	-0.89	-0.43	-0.87	-0.96	-0.82	5.82	0.68	-0.89	-0.93	Kidney			
2820985	-1.00	-0.60	-1.08	-0.45	-0.40	2.44	-1.34	0.73	3.34	-0.55	-1.08	-1.16	Kidney	Intestine		
1633393	-0.28	-1.00	-0.69	-0.07	-0.35	1.65	-0.13	-0.88	1.92	0.28	-1.15	0.49	Kidney	Intestine		
1806451	-0.72	-0.15	0.17	-0.68	-0.35	1.88	-0.91	-0.75	2.74	-0.54	-0.69	-0.87	Kidney	Intestine		

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
2674772	-1.43	-0.86	-1.33	-1.24	-0.78	2.41	-1.31	1.44	4.20	-0.20	-1.07	-1.47	Kidney	Intestine		
1376121	-0.67	-0.73	-1.03	-0.76	0.18	-0.67	1.83	-0.48	2.23	-0.35	-0.20	-0.38	Kidney	Lung		
831794	-0.02	0.67	-0.84	-1.00	-0.57	-1.15	-0.74	1.60	2.54	-1.58	-1.11	0.00	Kidney	Liver		
1427681	-0.99	-0.27	-0.83	-0.35	-1.02	-1.17	-0.84	3.24	3.60	-0.82	-0.76	-1.18	Kidney	Liver		
2912830	-0.78	-0.54	-1.49	-0.22	-0.44	-1.18	-1.22	1.73	4.88	2.60	-1.00	-1.40	Kidney	Pancreas	Liver	
504786	-0.61	-0.63	-1.01	-1.17	0.64	-0.98	-0.83	-1.42	3.62	-1.02	-0.53	2.35	Kidney	Brain		
254081	0.09	0.27	-0.52	-0.14	-0.34	-1.10	-0.42	-0.28	-0.14	8.97	-0.41	-0.39	Pancreas			
1330674	0.41	0.21	-0.11	-0.48	-0.08	-0.65	-0.39	-0.50	-0.72	8.59	-0.37	-0.56	Pancreas			
2377834	-0.29	0.76	-0.06	-0.28	-0.50	-0.64	-0.33	-0.27	-0.96	10.28	-0.41	-0.81	Pancreas			
2075464	-0.26	0.32	-0.07	-0.44	1.22	-0.29	-0.49	-0.43	-0.92	8.25	-0.49	-0.81	Pancreas			
2383235	-0.29	0.71	0.43	-0.28	-0.24	-0.96	-0.08	-0.29	-0.99	9.28	-0.41	-0.81	Pancreas			
1285503	-0.61	0.09	-0.67	-0.49	0.07	1.10	0.64	-0.26	-0.60	3.83	-0.39	-0.67	Pancreas			
2383205	-0.31	0.50	-0.08	0.00	-0.25	-0.56	-0.26	-0.05	-0.91	9.32	-0.52	-0.78	Pancreas			
2015871	0.19	0.82	0.33	0.10	-0.36	-0.42	-0.50	-0.60	-0.80	7.12	-0.42	-0.66	Pancreas			
2374046	0.28	-0.45	-0.78	-0.81	-0.39	-0.16	0.00	-0.05	0.09	4.23	-0.24	0.16	Pancreas			
1709828	-0.76	-0.86	-0.64	0.79	0.48	0.45	0.61	-0.51	0.96	2.20	-0.50	-0.27	Pancreas			
2061119	0.20	0.87	1.11	1.32	-0.04	0.10	-0.76	-0.98	-0.08	1.71	-0.30	-0.79	Pancreas			
3665105	-0.37	-0.42	-0.90	-1.12	-0.49	-0.08	-0.36	-0.37	1.07	6.89	-0.25	-0.22	Pancreas			
2068983	-0.66	-0.30	-0.46	-0.30	0.04	0.52	-0.25	-0.29	-0.58	7.80	-0.16	-0.50	Pancreas			
2242648	0.29	0.33	0.13	0.04	-0.19	-0.09	-0.27	-0.47	-0.84	6.92	-0.65	-0.58	Pancreas			
885032	0.54	0.06	-0.23	-0.51	0.47	0.12	-0.72	-0.75	-0.86	6.19	-0.15	-0.28	Pancreas			
2383830	-0.68	1.29	0.17	0.31	-0.06	-0.50	0.26	-0.57	-1.01	9.31	-0.61	-1.45	Pancreas			
2085191	-0.20	-0.03	-0.51	-0.27	-0.33	0.85	-0.57	-0.49	-0.80	10.19	-0.79	-0.73	Pancreas			
2792982	-0.13	0.17	-0.12	-0.05	0.01	1.34	-0.86	-0.78	-1.13	9.48	-0.85	-0.82	Pancreas			
179929	2.09	-1.33	-1.13	-1.39	1.30	1.65	-0.73	0.02	0.80	2.70	-1.24	-1.81	Pancreas			
2741788	-0.58	-1.06	0.59	1.65	0.66	1.10	-0.91	-0.65	-0.60	3.55	0.63	-0.49	Pancreas	Heart	Intestine	
2373608	-0.59	0.08	-0.08	-0.92	2.56	0.80	-0.75	-0.73	-0.86	7.14	-0.83	-0.85	Pancreas	Ovary		
2182095	-0.59	-0.32	-0.67	-1.35	2.23	4.43	-1.26	-1.39	-1.53	6.86	-0.94	-1.27	Pancreas	Stomach	Stomach	

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)											First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain			
2923150	-1.16	-0.28	-0.82	-0.86	2.97	3.67	-1.15	-1.30	-1.11	10.01	-1.49	-1.67	Pancreas	Intestine	
293495	0.10	-1.09	-1.56	0.18	0.39	-1.08	-0.07	3.75	-0.78	4.65	-1.12	-0.54	Pancreas	Liver	Stomach
4284270	-0.80	-0.21	-0.63	-0.91	-0.87	-0.83	-0.23	3.61	-0.55	4.01	-0.62	-0.40	Pancreas	Liver	
958923	-0.52	-0.65	-0.35	-0.26	-0.36	-0.52	-0.63	-0.29	2.14	2.73	-0.56	0.68	Pancreas	Kidney	
1921393	-1.28	-1.10	0.26	-1.09	3.15	-0.28	-1.00	-1.28	3.40	4.61	-0.48	-1.42	Pancreas	Kidney	Stomach
1447866	-0.47	-0.31	-0.13	-0.44	0.57	0.28	0.17	-0.34	-0.36	-0.64	1.94	-0.84	Spleen		
1666737	-1.13	-0.49	-0.27	-0.94	0.30	0.36	1.03	-0.48	-0.17	-0.50	2.43	-1.08	Spleen		
586245	-0.37	-0.26	1.74	-0.23	-0.14	0.09	-0.35	0.16	-0.20	-1.44	2.61	-2.19	Spleen	Uterus	
194162	-1.15	-0.35	-1.05	-1.03	3.19	1.56	-0.52	-0.73	-1.03	-1.30	3.20	-1.64	Spleen	Stomach	
243123	-0.53	-0.27	-0.54	-0.77	0.19	-0.20	-0.77	-0.31	-0.78	0.67	-0.44	3.56	Brain	Intestine	
382416	0.42	0.52	0.69	0.69	-0.64	-0.94	-0.35	-0.78	-1.53	-0.72	-0.73	3.38	Brain		
1852659	0.05	-0.49	-0.49	-0.75	-0.73	-0.32	-0.15	-0.55	-0.83	-0.07	-0.51	3.88	Brain		
3220181	-0.53	-0.65	-0.38	0.05	-0.22	1.41	-0.78	-0.09	-0.18	0.05	-0.49	1.68	Brain		
1726307	-0.60	0.74	0.26	0.58	0.08	-0.49	-0.15	-0.85	-0.79	-0.88	-0.31	2.32	Brain		
1904244	-0.21	0.13	-0.32	0.26	-0.54	-0.25	-0.46	0.08	-0.32	0.13	-0.42	1.90	Brain		
2039955	-0.51	0.05	-0.36	-0.52	-0.42	-0.52	-0.45	-0.18	-0.43	-0.33	-0.29	3.14	Brain		
2675641	-0.29	-0.73	0.39	0.27	0.17	-0.20	-0.85	-0.83	-0.12	-0.56	0.35	2.39	Brain		
1412749	0.09	-0.46	-0.76	-1.07	0.03	0.03	-0.51	-0.31	-0.59	0.20	-0.25	2.77	Brain		
1963854	-0.61	-0.87	0.23	-0.10	0.23	0.91	-0.74	-0.85	0.55	-0.84	-0.10	1.71	Brain		
2949085	0.16	-0.46	0.50	0.24	-0.19	-0.49	-0.12	-0.83	-0.34	-0.44	0.07	1.88	Brain		
2963196	0.18	0.29	-0.27	-0.49	0.12	-0.11	-0.70	-0.86	-1.03	-1.03	-0.63	3.46	Brain		
1505977	-0.21	-0.39	0.34	-0.48	-0.26	-0.83	-0.44	-0.05	-0.91	-0.20	-0.65	3.67	Brain		
1674985	0.46	-0.39	-0.25	-0.09	-0.59	-0.29	-0.38	-0.43	-0.01	-0.20	-0.23	1.93	Brain		
2109054	0.45	1.38	0.29	0.29	-0.56	-1.11	-0.70	-0.65	-0.18	-0.61	-0.90	2.00	Brain		
3317039	-0.49	0.01	-0.01	0.18	-0.01	-0.47	-0.66	-0.69	0.86	-0.37	-0.77	2.27	Brain		
2838551	-0.09	-0.22	0.00	-0.25	-0.25	-0.30	-0.31	-0.36	-0.02	0.29	-0.31	1.77	Brain		
1477568	0.65	-0.04	-0.22	-0.82	-0.13	-0.66	-0.49	-1.28	-0.04	-0.98	-0.30	3.00	Brain		
2963871	-0.25	-0.32	0.87	0.29	0.03	0.14	0.12	-1.14	-0.50	-0.47	-0.41	1.82	Brain		

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
1740547	-0.31	-0.49	-0.44	-0.60	-0.22	-0.21	-0.28	-0.64	-0.66	-0.47	0.24	3.15	Brain			
2292011	0.10	-0.24	-0.09	-0.75	-0.13	-0.68	-0.37	-0.39	-0.80	-0.80	-0.64	3.68	Brain			
1349484	-0.29	0.22	0.21	x	-0.41	-0.37	-0.12	-0.37	-0.60	x	-0.04	1.71	Brain			
1674253	-0.51	-0.28	-0.80	-0.52	-0.56	-0.43	1.02	-0.67	0.57	-0.52	-0.14	1.70	Brain			
1932189	0.07	-0.50	-0.99	-1.17	-0.14	-0.30	-0.64	-0.80	-0.69	-0.30	0.13	3.97	Brain			
1403041	0.36	0.45	0.53	-0.34	-0.17	-0.41	-0.67	-0.81	-0.86	-0.55	-0.67	2.66	Brain			
1486358	0.28	-0.50	-0.01	0.33	-0.05	-0.23	-0.17	-1.00	-0.17	-1.16	-0.92	3.03	Brain			
1439065	0.13	-0.37	-0.58	x	-0.30	-0.17	-0.13	-0.06	-0.53	x	0.04	1.68	Brain			
530629	-0.42	0.15	-0.39	x	-0.47	-0.19	-0.34	-0.36	-0.74	x	-0.20	2.68	Brain			
1672676	-0.06	-0.47	0.32	0.21	-0.36	-0.42	-0.51	-0.95	-0.71	-0.68	-0.30	3.59	Brain			
1989129	-0.39	-0.44	0.26	0.00	0.10	-0.03	-0.33	-1.18	0.11	-1.00	-0.60	2.95	Brain			
1486348	-1.03	0.33	0.41	0.41	-0.34	-0.33	-0.53	-0.93	-1.14	-0.20	-0.20	3.71	Brain			
1397294	-0.53	0.01	-0.30	-0.89	-0.04	-0.54	0.13	-0.66	-0.89	-0.78	0.51	2.75	Brain			
2844322	0.11	-0.22	0.46	-0.02	-0.36	-0.55	-0.16	-0.88	-1.15	-0.75	-0.61	3.64	Brain			
1481440	-0.62	0.26	-0.25	0.67	-0.52	-0.44	-0.34	-0.43	-0.72	-0.33	-0.14	2.82	Brain			
26459	0.60	-0.56	-0.83	-0.84	-0.30	-0.67	-0.20	-0.15	-0.31	-0.34	-0.05	2.49	Brain			
1406786	-0.47	0.48	0.25	0.19	-0.07	-0.48	-0.05	-0.66	-0.47	-0.92	-0.36	2.14	Brain			
1485846	-0.37	-0.40	0.01	-0.38	-0.49	-0.04	-1.26	-1.03	-1.58	-1.04	-1.11	6.58	Brain			
2153242	-0.65	-0.37	-0.68	-0.90	-0.31	0.16	-0.29	-0.41	-0.75	-0.23	-0.03	3.38	Brain			
2157981	-0.35	-0.53	-0.45	-0.24	-0.20	-0.73	-0.68	-0.60	0.77	0.07	-0.62	3.23	Brain			
3244361	-0.47	-0.04	-0.23	-0.55	-0.36	-0.54	-0.64	1.42	-0.66	-0.14	-0.60	2.16	Brain			
1986737	-0.10	1.12	-0.16	-1.11	-1.01	-0.57	-0.59	-1.10	-0.04	-0.91	0.10	2.63	Brain			
2506867	-0.67	0.12	0.21	1.14	-0.88	-0.18	-0.91	-1.40	0.71	-0.86	-1.37	4.06	Brain	Heart		
1211682	1.89	-0.92	-0.91	-0.22	-0.43	0.47	-1.04	-0.37	-1.24	-1.54	-0.50	3.18	Brain	Heart		
1416354	1.96	-0.66	-0.27	-0.78	-0.93	-0.46	-0.39	-0.60	-0.77	-0.61	0.01	2.16	Brain	Uterus		
2963962	1.40	-0.36	1.60	0.14	-0.23	-0.29	-0.80	-0.70	-1.15	-0.55	-0.66	1.78	Brain	Intestine		
1761086	0.70	0.98	-1.19	-1.49	0.57	1.61	-1.03	-1.05	-0.55	-1.04	-1.17	1.77	Brain	Lung		
2588552	-0.84	0.98	-1.45	-1.33	-0.23	-1.10	1.97	-0.61	-0.82	-0.15	-0.75	2.78	Brain			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
1901271	-1.09	-1.96	-1.10	-0.34	-0.51	0.86	-0.30	1.52	0.41	-0.87	0.30	1.73	Brain	Liver		
1740924	-0.04	-0.43	-0.84	-0.64	-0.23	-0.52	-0.51	1.67	-0.80	-0.23	-0.26	1.90	Brain	Liver		
1480159	-0.86	-0.07	-0.82	-0.86	-0.79	-0.52	-0.59	-0.38	0.50	2.34	-0.05	2.55	Brain	Pancreas		



What is claimed is:

1. A plurality of cell and tissue specific polynucleotides selected from SEQ ID NOs:1-416 or the complement thereof.
- 5        2. A subset of the polynucleotides of claim 1, wherein the subset is selected from at least one of the groups consisting of
  - a) SEQ ID NOs:209-218 and 1-10, cell specific polynucleotides of heart and fragments thereof,
  - b) SEQ ID NOs:219-249 and 11-41, cell specific polynucleotides of skeletal muscle and  
10       fragments thereof;
  - c) SEQ ID NOs:250-251 and 42-43, cell specific polynucleotides of uterus and fragments thereof;
  - d) SEQ ID NOs:252-256 and 44-48, cell specific polynucleotides of ovary and fragments thereof;
  - 15       e) SEQ ID NOs:257-263 and 49-55, cell specific polynucleotides of stomach and fragments thereof;
  - f) SEQ ID NOs:264-283 and 56-75, cell specific polynucleotides of intestine and fragments thereof;
  - g) SEQ ID NOs:284-293 and 76-85, cell specific polynucleotides of lung and fragments  
20       thereof;
  - h) SEQ ID NOs:294-345 and 86-137, cell specific polynucleotides of liver and fragments thereof;
  - i) SEQ ID NOs:346-356 and 138-148, cell specific polynucleotides of kidney and fragments thereof;
  - 25       j) SEQ ID NOs:357-374 and 149-166, cell specific polynucleotides of pancreas and fragments thereof; and
  - k) SEQ ID NOs:375-416 and 167-208, cell specific polynucleotides of brain and fragments thereof.
2. The composition of claim 1, wherein the polynucleotides are immobilized on a substrate.
- 30       3. A high throughput method for detecting expression of a polynucleotide in a sample, the method comprising:
  - a) hybridizing the polynucleotides of claim 1 with the nucleic acids of the sample under condition to form a hybridization complex; and
  - b) detecting the hybridization complex, wherein the presence of hybridization complex  
35       indicates expression of the polynucleotide in the sample.
4. The method of claim 3 wherein the nucleic acids of the sample are amplified prior to

hybridization.

5. The method of claim 3 wherein hybridization complex formation indicates the differentiation of embryonic stem cells into a tissue selected from the group consisting of brain, heart, kidney, liver, lung, muscle or pancreatic tissues.

5 6. A high throughput method of screening molecules or compounds to identify a ligand, the method comprising:

a) combining the polynucleotides of claim 1 with molecules or compounds under conditions to allow specific binding; and

b) detecting specific binding, thereby identifying a ligand which specifically binds to the  
10 composition.

7. The method of claim 6 wherein the molecules or compounds are selected from DNA molecules, RNA molecules, peptide nucleic acids, mimetics, peptides, and proteins.

8. An isolated polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof.

15 9. The polynucleotides of claim 8 wherein the fragments are SEQ ID NOs:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204, respectively.

10. An expression vector containing a polynucleotide of claim 8.

11. A host cell containing the expression vector of claim 10

12. A method for producing a protein, the method comprising the steps of:

20 (a) culturing the host cell of claim 11 under conditions for the expression of protein; and

(b) recovering the protein from the host cell culture.

13. A protein produced by the method of claim 12.

14. A high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, the method comprising:

25 (a) combining the protein of claim 13 with the library under conditions to allow specific binding; and

(b) detecting specific binding between the protein and a molecule or compound, thereby identifying a ligand which specifically binds the protein.

15. The method of claim 14 wherein the library is selected from DNA molecules, RNA  
30 molecules, peptide nucleic acids, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments, immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents.

16. A method of purifying a ligand from a sample, the method comprising:

a) combining the protein of claim 13 with a sample under conditions to allow specific  
binding;

35 b) recovering the bound protein; and

c) separating the protein from the ligand, thereby obtaining purified ligand.

17. A composition comprising the protein of claim 13 in conjunction with a pharmaceutical carrier.

18. A purified antibody that specifically binds to the protein of claim 13.

## SEQUENCE LISTING

<110> INCYTE GENOMICS, INC.  
 SORNASSE, Thierry R.  
 SEILHAMER, Jeffrey J.  
 WATSON, George A.

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<220>  
 <221> unsure  
 <222> 230  
 <223> a, t, c, g, or other

<400> 10  
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 gccccaatca gacgccgctc ctccaactac cgcgcttatg ccacggagcc gcacgccaag 120  
 aaaaaatcta agatctccgc ctcgagaaaa ttgcagctga agactctgct gctgcagatt 180  
 gcaaagcaag agctggagcg agaggcggag gagccggcgc ggagagaagn ggcgcg 236

<210> 11  
 <211> 225  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3208425H1

<220>  
 <221> unsure  
 <222> 204, 214, 220, 222, 224  
 <223> a, t, c, g, or other

<400> 11  
 gcactgaccc cggagcagaa gaaggagctg tctgacatcg ctcaccgcat cgtggcacct 60  
 ggcaaggggc atcctgggct gcagatgagt ccactgggag cattgccaaag cggctgcagt 120  
 ccattggcac cgagaatcac cgaggagaac cggcgcttct accgccagct gctgctgaca 180  
 gctgacgacc gcgtgaaccc tganttgggg gtgnaatccn tntnc 225

<210> 12  
 <211> 468  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1668474F6

<220>  
 <221> unsure  
 <222> 58  
 <223> a, t, c, g, or other

<400> 12  
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 agggggcatc tcagaggaac cgcggggccc cgagttgggc tctctggaac ttgtggagga 120  
 cgacacagtg gattcagatg ccacaaatgg ccttatcgat ttgcttgaac aggaggaagg 180  
 tcagagggtca gaagagaagc tgccagggtc taagaggcag gatgacgcga cagggtgcagg 240  
 gcaggactca gagaatgaag tgtctcttgt ttcaggccat cagagggggc aagcccgaat 300  
 cacacattcc cccaccgtga gtcagggtgac ggagaggagt caggacagac tgcaggactg 360  
 ggatgcagac ggctcgattg tctcatacct gcaagatgct gcacaagggt cctggcaaga 420  
 ggaggtcacg caaggtccac actcattcca ggggacaagt accatgac 468

<210> 13  
 <211> 213  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1622542T6

<220>  
 <221> unsure  
 <222> 98, 170, 200

<223> a, t, c, g, or other

<400> 13

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agcaaatctc ttagtatctt tcctctgttc caaagggtct gaccatgttc atgacctaac 60
cttggtccctg gaagcataca tgtccctggg agacagggnag gttcagggaa cttctccacc 120
ctgattctag ccaatggcca gcgaactcct tttccagggt tggcttggn gtgtcgggga 180
atgatgcagg ttcacgggn tgggcatgaa aag 213
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<210> 14

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4014318T6

<220>

<221> unsure

<222> 10, 12, 63, 71, 365, 376

<223> a, t, c, g, or other

<400> 14

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cagttaaaaan tnttcccg ggctcctgga agccaaggag gggacgctgg gctcaccaga 60
ganggtgtgt nttatcaccg agaaagagac aggcctggcta tttacacgga acaccagct 120
ggcaaacaca ggttgctccct gcaatgttca taaaggacaa ctggaggcag cttatcagag 180
gctggtacag tggggacacc tctgagctcc aggggaagtt gggcccctgc aaacacctgt 240
ccacctgctg gctctgcctc cccaactgt ggccagggtta ggactcacgt cttgctctat 300
tcccagggga gctgcggca gccagagga actcagagag aggaagcagc ctgcgactgt 360
tgcanggggg cagatnggag cagggtgggg ctaaaattgc tcccggcctc ctcttctggg 420
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<210> 15

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2394888H1

<220>

<221> unsure

<222> 92, 155

<223> a, t, c, g, or other

<400> 15

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ctacaggctt ccaggcacct catcagtcac gtctctcttc cattttaccc cctacccatc 60
cttgatcggg catgcctagc ctgacccttt antaaagcaa tgaggttaga agaacaacc 120
cttgctccct tgccatgtgg aggaaagtgc ctgcntctgg tccgagccgc ctcggttctg 180
aagcgagtgc tctgcttac cttgctctag gctgtctgca gaagcacctg ccggtggcac 240
tcagcacctc cttgtgctag ag 262
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<210> 16

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1345550H1

<220>

<221> unsure

<222> 83

<223> a, t, c, g, or other

<400> 16



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ccgcctcgcg aggaatgcat cgtgtggctg ctgctgaagg agcccatgac cgtgagctct 60
gaccagatgg ccaagctgcg ganctcctct ccagtgtgta gaacgagccc ccagtgcctc 120
ttgtgagcaa ctggcgacct ccacagccta tcaataacag ggtggtgaga gcttccttca 180
aatgaggctg ctggatcttg ccctcttcag gaaaggaaac ctaccattgg agagcttggg 240
tccttgcttc cttctg
256

```

<210> 17  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1719955H1

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<400> 17
gtgtgtaagg cgggagcagc tgagaagggg gtccccctgt accgccacat cgcagatctc 60
gctgggaacc ctgacctcat actcccagtg ccagccttca atgtgatcaa cgggggctcc 120
catgctggaa acaagctggc catgcaggag ttcattgatc tgccctgtggg agccagctcc 180
ttcaaggaag ccatgcgcat tggcgccgag
210

```

<210> 18  
 <211> 252  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2256026H1

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<400> 18
atcgtggtgc agaaaggaga cgaagcgggc ggctacgtca aggtctacac cggccgcaag 60
tggggctgtt tcccaccgac tttctagagg aaatttaggc gtgcggggcg ctgcaagcgg 120
gagacaccca cacccttctc tgggcggggc cagtggagtt tggggagggg ggcgaaagca 180
acgggactgc tgggagagga ggggtaggaa ggcccgctg agcgcgacgg ggcttccggg 240
aagggactgg tt
252

```

<210> 19  
 <211> 643  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1538086T6

<220>  
 <221> unsure  
 <222> 2-4, 13, 16, 19-21, 24, 28-29, 31-43, 45-46, 49, 52, 58, 82, 93, 605,  
 619, 623  
 <223> a, t, c, g, or other

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<400> 19
cnnncgcccc cgntcnatnn nccnattntt nnnnnnnnnn nnnanngcng gngtttantt 60
cgaccgtcga gggaccctg cnagtgggca gcnagtgacc cctcgacaga gaagctggga 120
aagctgctgg tgacacacag ctgggatcag ccctgggctg gtgggacccc tcacagagaa 180
gccgggaaaag cttctggtga cacacagctg ggatcagccc agggctggtg cgacaccctg 240
gactcccggc caggaaggca cggaggaggg catgggtgtg gccgggcccg ggtggggggt 300
cagcctttgg tcaccagggg cgtgattcat ctgtgggaag gcgtagtagc ggcagttcgg 360
ccggtgggaa ccagcgccat caaccttccc gtacggatgt tctccctcc cggaagccc 420
ggcctccagc agcgcggggc aacctggcgt tcttctcaa acatgatggt gatgtctgag 480
tacttggaaac ttcattcagc tccccccagg aggtgaggtt gcagtaggtg aggaacgccc 540
ccccggcttc agcaggcgaa aaggcgtggt tcttgatgaa gtttgaactg ggtgtgtgtg 600
ccaangttct tccttcgna ganttggggt acgtgttcgt aac
643

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<210> 20  
 <211> 273

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 958633H1

<220>  
<221> unsure  
<222> 8, 126  
<223> a, t, c, g, or other

<400> 20  
ggcaaantg agtggcttct ctaagcatct gctggtacaa gtcaatgtgg caccatgagc 60  
ttcatgggtg cagaagagac aatagtcctt agctctctc ccagtacacc ccctacttgg 120  
ccagtntgta ggccaacaag aaggttcctt taccctcatg caagacactt atgagaacac 180  
attacaagat ggctgaccgt ggaggatgag tggatcctga aaggttgtcc caaactgttg 240  
atttggaata gaaataagca catagataac ctt 273

<210> 21  
<211> 452  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2635943T6

<220>  
<221> unsure  
<222> 4-5, 7-8, 20, 28, 31-32, 42-43, 59, 63, 236  
<223> a, t, c, g, or other

<400> 21  
ccanntnntg gccacaatan ttaaattnaa nngattggcc gnngtggtac caagaagant 60  
cancctttct actccttctc tttcgtctgg tcaactcagaa atataatatt atcagctatg 120  
attgttggtg cttgtgcgct cacattattt ttatccatgt attcaccata gtctattttc 180  
ccttccaaat aaattcgaga cccctttttc acatattgat atgccacgtc tctgangcct 240  
ggcgggaata ctgatatctt gtgccatggt gtcttttgac tgacatcacc cagttggtaa 300  
acttcactat cccctgatcg ccacatctca ttagttgcta gagaaaatat tgtgactgga 360  
ttttttcctt ccacctgtct caagacaggg tcctgacca ctcgcccaag taagtggcac 420  
acgattcagg gatctttcaa agaaccaaac tg 452

<210> 22  
<211> 181  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 121888H1

<220>  
<221> unsure  
<222> 18, 56, 133, 173  
<223> a, t, c, g, or other

<400> 22  
aaacatgaga ggcgagtnaa ggaactcact taccagacgg aagaagatag aaagantatt 60  
ctcaggcttc aagatttggt agataaactt caggcaaaag tgaaatctta taagagacaa 120  
gctgaggagg ctnaggaaca atccaacacc aatctagcta aattccgcaa gcnccagcat 180  
g 181

<210> 23  
<211> 206  
<212> DNA  
<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1627492H1

<400> 23  
 ctcgagccgt caaaatggaa caggctaaaa cagaggatga aaagtccaaa ttaactgtgc 60  
 tacagatgac acacaacaag cttcttcaag aacataataa tgcattgaaa acaattgagg 120  
 aactaacaag aaaagagtca gaaaaagtgg acagggcagt gctgaaggaa ctgagtgaaa 180  
 aactggaact ggcagagaag gctctg 206

<210> 24  
 <211> 299  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 4073867H1

<220>  
 <221> unsure  
 <222> 161  
 <223> a, t, c, g, or other

<400> 24  
 cagccatgga gcagcttcgc gccgcgcgcc gtctgcagat tgttctgggc cacctcggcc 60  
 gcccctcggc cggggctgtc gtagctcatc ccacttcagg gactatttcc tctgccagtt 120  
 gccatcctca acaattccag tatactctgg ataataatgt nctaaccctg gaacagagaa 180  
 aattttatga agaaaatggg tttctagtaa tcaaaaaatct tgtacctgat gccgatattc 240  
 aacgctttcg gaatgagttt gaaaaaatct gcagaaagga ggtgaaacca ttaggatta 299

<210> 25  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2190170T6

<220>  
 <221> unsure  
 <222> 16, 92, 130, 251-252  
 <223> a, t, c, g, or other

<400> 25  
 tgactagtta aattancatg cttgacatta actctggggt gaaacctacc tccgtcaaatt 60  
 aacaagtgga ctctccaagc aaatgtctac anggcaattc aagcagcaac tcaagagccc 120  
 agaggagcan tggagacgag gccatcactc cacttcccag tgcgacaacc acttttttgt 180  
 aaacacctgt cagatgctaa aaatacggcc ttacacacta ccgtcaccaa agttttataag 240  
 caataagatc nnagagcagg agccgctgca gcacctctaa cagtccagg 289

<210> 26  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 972224T6

<220>  
 <221> unsure  
 <222> 87, 138, 149, 164, 170, 210, 238, 289, 307, 314, 316, 339, 368, 372,  
 381-382, 388, 411, 417, 424  
 <223> a, t, c, g, or other

<400> 26  
 cgaacagaag cgctcgggcag cggaggcccc cggttgcccc tactcctggt ccttgggcgtc 60  
 gccgtgctg atgacgtagc agatgtnttt gtagtcgacg ttgccgcca cgtcgggggg 120  
 gaaggccgcc cacatgtntc tgatctccnc ctgggagaag cggncacacn gcgtgggtcag 180  
 cagctcctcc aggaacttct tcttgatggn gccctttccc tcagggtcca agacctnaa 240  
 ggctccggtg atcacatcct cagggtcggc acccttgagc ttctcccna acatgggtcag 300  
 gaagacngtg aagtnatgg gaccgctggc ttccttcanc atggcatcca actcctcatt 360  
 cttcacantg ancgggcca nngctgcnaa ggtgtcccga agtcctcctt ntctatnata 420  
 ccancacggt tct 433

<210> 27  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1413644T6

<220>  
 <221> unsure  
 <222> 558, 563  
 <223> a, t, c, g, or other

<400> 27  
 ctaaaatcac acacaaaggc aaatcatgag gaaacgttaa atatttcaa atgcccacga 60  
 ggctgcccag aaacagtgtc gtatctatag cacagaatcg ttggaggcca aagctaaagc 120  
 agtaggggct actgcaactt ctactctttt actgctgctt tttgtttgt ttgatagagg 180  
 gggattcagg tgaggggggt cggctctctca ggaagttagg ccataatttc tgcagggttca 240  
 gtgattaact tggatccatc ccattgctgtc ttgaactgtt caggaatggg aaattctcta 300  
 taatcaccat cctgagggat aagtatgttc atttcagatg acttggcgct cagcatctca 360  
 cagtctaag catcttcact gaggtatatg tggcaacctt ctgtcttatt aatggaaatt 420  
 gttggcactc tcccattac ctggatttga atgtcctggg agttgatcac ttccacaatg 480  
 cccaccacat tgtcaaacac cagggccgag tttcttacag tttgtcaatt ataatggagt 540  
 ttactttccc ttttatcnga atngttgatt tttcgcattt gaaaat 586

<210> 28  
 <211> 144  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1538224H1

<400> 28  
 gccttggaac aaaggcgacg cttcttgggc cgcctcgtag ctgtaacag ccgcaagatg 60  
 gccttgcg ccaaatccaa gtcttgccac gacctctcgg ttctctaggt cccacccgct 120  
 cccactatgg tgggagacga acgg 144

<210> 29  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2623268H1

<400> 29  
 tcagaatggg aagaatgaga gaagtcatat gcccggcaca tatttgacta cagtcattcc 60  
 ttatgagaaa aaaaacggac caccgtctgt tgaagatctt caaatattaa caaaaattct 120  
 tcgtgccatg aaggaggaca gtgaaaaagt tccgagcttg ttaactgatt atattctgaa 180  
 agttctgtgt cctacataga gcagcaactt tatctgcggt gggctccaag ctagatttcc 240  
 gacagcatt 249

<210> 30

<211> 257  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1665533H1

<400> 30  
 caagctggag ctgcggactg agccaggctt ccactgggtg attgccgatg gggaggacac 60  
 cacagtgcgg gccagcacc actgcaccta tgaccgcgtc gtgctgcacg gggagcgctg 120  
 ccggagtctg ctgcacactg cggtgcctt tgacttccc acgagcttcc agctcaccga 180  
 ggaggaggcc ctcaacatca gtgaccacta ccccgaggag gtggagctga agctgagcca 240  
 ggcgcacag tccagcc 257

<210> 31  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 981484T6

<220>  
 <221> unsure  
 <222> 91-92, 410, 557, 567  
 <223> a, t, c, g, or other

<400> 31  
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 aagaaagtgt taaactatatt acaaaaatac nntaaatacc cctaacatta aatgcaactt 120  
 tcccacttta gacaggaatg aacttctttt gaacatggca caaaaggatc accgtaataa 180  
 aagttaatat agtataaaac caaccaaaca aaaacaaaat gaggctagac ctaagccact 240  
 cgcagttcca aaaaaataaa agcccaaagc cgaaaggcgt ttccatttga gcatgcacaa 300  
 cagatttcgc aatttttcgca acgtttcttt gtgaatgtgt ctccctccct ttcagcaact 360  
 ttctcgtctg gggtcctaaa tgtaaatgta atgtgaccta atctaaagggn ttaggccagg 420  
 aagggtcggg gggatcttcc tgctgcgtgg agaaggctca agcgcaggct cagttacttc 480  
 tccaccactt cctccacgca ggggagtttg cgttctccg aggaaatact gtccacgatg 540  
 gaagaaaggc atcgaangct actcgangct gacgatcaat acttgctcct ccttcccttag 600  
 ccggtatcac gagccccctg 620

<210> 32  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 973629H1

<220>  
 <221> unsure  
 <222> 85  
 <223> a, t, c, g, or other

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 acccaaagaa gaaaaaattg acctntctgc cattaagatc gagttctcta aggaacagca 120  
 ggatgaattc aaggaggcat ttctcctggt tgacagaaca ggtgattcca agatcaactt 180  
 aagccaggtc ggtgatgtct tcgagctctg ggcacaaatt ccaccaatgc agagg 235

<210> 33  
 <211> 399  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1539638T6

<400> 33  
 ggccctcctgg tggctggaac gtgctttcgc ctgcggggcc cagtgtccgg accccactgg 60  
 atctgcagca ctcagacgct taggatgtgt ttcaagaagg cctcgtagtt gatgcagccg 120  
 ttgctgtcct cgtgtcctgc cagaacgggc tccacctcct cctcagtcac cttctctcca 180  
 aggggtggtga gaacatgtct gagctctgct cccatgactt tgccgttccc ctccttgctca 240  
 aacacacgaa acccctccaa gtagtcctca tatgtgcctt ggccctcggtt cttggccact 300  
 gcctggagca tgggcaggaa agtctcaaag tccacacgcc gcgacttcag tcatcactct 360  
 tgggggttccc aggaccttga gacctcggcg ttggtgggg 399

<210> 34  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3015758T6

<220>  
 <221> unsure  
 <222> 116, 141, 143, 162, 164, 182, 196, 280, 299, 301, 319-320, 326, 338,  
 340, 446-447, 467  
 <223> a, t, c, g, or other

<400> 34  
 acacagtcct gggagggttg ggattggggg caggactcca ccaccaattg tcttggcagg 60  
 taggggacag gtctcactgc ggcactcgga cctccagctt gcactcagcc agcgcntcgc 120  
 ccagctcgtt gacggccccg nangtgtaag tcccagcgtc gnanggcgac gggcgacgga 180  
 tnttcagcgt caggantcct tggtaattgg ttatcaggaa cttgggatct tcatggattt 240  
 ccattctgtg cttcatccaa accaccttcg gcttcgggtn gcctctgaca gcgcagttna 300  
 nggctggcga gtacccagnn acgacnacgc ggtctatnan aggtgtcagg aacttgggaa 360  
 ccattccggaa gtcattgtcc ttatactcga acggtttgaa ggtgattcct gtcttgagga 420  
 tgcgggccgt gttcttggag acaccnngt agtcactgag cccacanatg ttct 474

<210> 35  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2832314H1

<220>  
 <221> unsure  
 <222> 156  
 <223> a, t, c, g, or other

<400> 35  
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 cagcccagag cctggctgcc catcatgtgg cccacccaa tcaagggaag aaggaggaat 120  
 gctggactgg agggccctgg agccagatgg caaganggtg acagcttcct ttctgtgtg 180  
 tactctgtcc agttccttta gaaaaaatgg atgccagag gactcccaac cctggcttgg 240  
 ggtcaagaaa cagc 254

<210> 36  
 <211> 477  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1702996F6

<220>  
 <221> unsure  
 <222> 389  
 <223> a, t, c, g, or other

<400> 36  
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 ctttccaaag agaacgagtc attgaaaagc aagctggagc atgccaacaa agagaactca 120  
 gatgtgatag ctctatggaa gtccaaactg gagactgcca tcgcatccca ccagcaggcg 180  
 atggaagaac tgaaggtatc tttcagcaaa gggcttggaa cagagacggc agaatttgct 240  
 gaactaaaaa cacaatataga gaaaatgaga ctagattacc aacacgaaat agaaaatttg 300  
 cagaatcaac aagactctga acgggctgcc catgctaaag agatggaagc cttgaggggc 360  
 aaactgatga aagttattaa agaaaaggna aacagtctgg aagccatcag gtcgaaactg 420  
 gacaaagcag aagaccagca tctcgtagaa atggaagaca cgtaaaca attacag 477

<210> 37  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 839947H1

<220>  
 <221> unsure  
 <222> 117, 189  
 <223> a, t, c, g, or other

<400> 37  
 gaagcaagca cctccctcac cccctccaaa gaaggaggaa gctggaggcg aattctgggg 60  
 agaactggag gtgcagaggg tgaagttcct gaactacctg tcccggaaact tttacancct 120  
 gcgggttcctt gccctcttct tggcatttgc catcaacttc atcttgctgt tttataaggt 180  
 cttagactnt ccaccagggg aggacgacat ggaaggctca gctgctgggg atgtgtcagg 240  
 tg 242

<210> 38  
 <211> 286  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1867522H1

<400> 38  
 aaggagtgg agctcaagtt ggagacagcg aggagaaacc tgccatagcc aggggtgtgtc 60  
 tttgatcctc ttcaggaggt gaggagaagc cagaggtcct tgggtgtgcc tcagaaatct 120  
 gcctgcagtt ctcaccaagc cgctgtgaaa atggggataa acaccggga gctgtttctc 180  
 aacttacta ttgtcttgat tacggttatt cttatgtggc tccttgtgag gtcctatcag 240  
 tactgagagg ccatgccatg gtccctgggat tgactgagat gctccg 286

<210> 39  
 <211> 272  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1987831H1

<220>  
 <221> unsure  
 <222> 233, 269-270  
 <223> a, t, c, g, or other

<400> 39

```

tttaattatg aatgcatatt tttttccag gcaggctctc ttacttgaac aaaaatccaa 60
aaactaattt agagtctttt ttgccagat cttttaagac ttacacccca gagatttaag 120
aagaaaacct ctaaatttca aaattatgaa gaattacaga attactcatt taaggctactt 180
taaaagaagt ttgtacattg tcaaagtaaa ttttaattca aatcatgtct gtnaaacttg 240
acgtattttg tgtatgcatg ttttcattnn gc 272

```

<210> 40  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2639708H1

```

<400> 40
ggccagccca gctccacgag gactgaacaa ggtgctgtct cactgccacc atgccggaag 60
tcgagagaaa acccaagatc actgcctccc gcaaactctt gctgaagagc ctgatgctgg 120
ccaaggccaa ggaatgctgg gagcaggagc acgaggagcg cgaggctgag aagggtgcgt 180
acctggcaga gcgcattccc acgctgcaga cccgtggcct gtccctcagt gccctgcagg 240
acctgtgccg ggagctgcac gcc 263

```

<210> 41  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 973815T6

<220>  
 <221> unsure  
 <222> 308, 446  
 <223> a, t, c, g, or other

```

<400> 41
cactcccagg cttcccaggt gccactgtcc ggggcggcat cctcacttcc agcggcctcc 60
aacgcggccc ttccctgccc ccttcgggaa cttctgggcg tggtgatgc ggttgtagag 120
cacgttgatc tcatatttct gctgtttcag cttcgccatc aggtcgaact tctcagactc 180
cagctgggtg atccagtccg acagctcctg ggctttctcc cggagctggt cctcccccat 240
gtagtcaatg tccagaggct tcttacgctc ggagaggatg cgcaccttca tctcccggcc 300
cgtctgcngc ttaccacgct tctgtttctg cttgaccagg tagccgccaa aatgggcccc 360
catgttggac agcaccttct ttttcttggc atcatcctct gcccgcttct tggcctcttc 420
ctcttcttcc ctcatcttct ctccgncag 449

```

<210> 42  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2079906T6

<220>  
 <221> unsure  
 <222> 267-268, 279, 284, 287, 290, 295, 297, 299, 305, 312, 318, 333, 338-339, 344, 351, 353, 356, 360-362, 364, 366, 378, 397  
 <223> a, t, c, g, or other

```

<400> 42
gagacagaag gttttcatat aaatgcaagt ttgacaaagt cagcatcttt ctagctgtct 60
aaggaaagat cacttgtaac acagccagcc aggaggctgc tttgtttttt attataaaga 120
acactaacac aaatgcagca tgattgctgt aaaataaatg tgaaatttgt acaaaagtcc 180
cagtccttcc gcagttctag gtttacagtc aggctcaacc ttacttgccc cgctcctgca 240
tgaaaacaag tgcgttttat acagccnngg ccaccagng gcanagnnntn aggcncnana 300

```



taganttaaa antaaggntt ctttccgagc agncacanna attngaaccc nengngnacn 360  
 nntngnccac agaggggnaa taaaaagacc agttttnaag taagagga 408

<210> 43  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2852042T6

<400> 43  
 ggtacagccc atgcctgcag ccccttcagtg ggggtggctcc agatagtgtt gtcctttcag 60  
 ttgctgggag cggtagggcc cagccctttc ccttctctcc caccactatt cctaacctgg 120  
 ggcctggcag gggtaggagtg atgtgatcta aggggtccctg gagaagggtg gagtggaga 180  
 ggcagggtct tgggttaaag ggaagattct gaggtctcag ggcaaaggga aagggtgtttg 240  
 gatgaagact gaggcagtg ctaacctcct ccacatctga ggatcaagca ggtgtggcaa 300  
 gaacagagcc ctggcctggg ctctgctggc cgcagcctca ggagccaggg ttaaggccag 360  
 agataaatga agatttgagc cattgataaa tgccaatata tgtttcaggt atttcattag 420  
 gatcctccca tcaagcaggg aactagatgt ttgagaagat caaacaacat cctgactttg 480  
 ggggccttaa gacctggggt attctctctc cagtcctagt gggaggctat ccattccac 540  
 aaagact 547

<210> 44  
 <211> 335  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2368282T6

<220>  
 <221> unsure  
 <222> 305  
 <223> a, t, c, g, or other

<400> 44  
 aagaggagtg gcccagctga gctgaggaag gtgaccactg agaaccatt caacctgctg 60  
 agcaggctgg gcagaaagga gcaggacttg ggacagacga ctgaagatgc agagacccca 120  
 tgggccccac ccctgggcct tcctcccatg ttgctgcagg ccacccctctc tgatcactgc 180  
 tgggttgctt cctgggttaa gggccagaag gtgaaggaga tgggcttttc aggcatcaga 240  
 atgaggttga atgtggtgcc cacatcgctg aggtgttgga tttcaactct gaagttctcc 300  
 aagcntattg atgaggaaga tggatcatct tagct 335

<210> 45  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2831248T6

<220>  
 <221> unsure  
 <222> 110  
 <223> a, t, c, g, or other

<400> 45  
 gatacacaag cttcattccc atctataatt ttatctggta ccattattca atttagatat 60  
 attgcatagg atgtgccaac aatcactttt ataaccattc catgattttt cttgggtaat 120  
 cccttttaat ggtgaacttc aggtcacaac agtaactatc agttcaacta caccaagggt 180  
 tccgaagaca atggcttctc caccacaagca ggttgatat aaattccaaa tagaacctgg 240  
 catcaccttg aaggaattct aacttcacac tgttggggaa atttaccaag atggcttaag 300  
 agtagactaa ctttacacag cacattaaaa aaaagacatt tattcagcgt cagcatcaga 360

ctgttacatt tagcaatca cagcatgggg tgcaaaaaaa aaaatctaca tcaaaaccct 420  
ttgttggaat gct 433

<210> 46  
<211> 538  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 182802T6

<400> 46  
gtgaaggaat ggaagattaa aaagaaagga aatcctttct catttaagag tagaaatgga 60  
gctctagtag tcaaaacgac cctcaagtta aaagagtcct taaattgttc agaatcagct 120  
actgagattt ggtaacagca aaccacatgg tctttcctct ggtatatgat taggacagaa 180  
accttcttgt tgggccaatg actgcgaggg ttttgatgac atgaggaata caataagttg 240  
gccattgtat gaaagggagg cagcaggacc tgagcttgtg cccttgtcac tttctgtatg 300  
aggccaggag ggtggagctt gatgacatct cctaacaata cccacatgca catctctgta 360  
atccttaaat cactgagtct tggacttcag gttctccttg tgccgggtcca caaggggaacc 420  
aaccactcc accgttttct gcttggtctc ctcccagctg tagagtggct tatacgccag 480  
atctcgctga gccttcttat aagagaaggt gaatacgcta tttgacaatg tgactatg 538

<210> 47  
<211> 219  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1003884H1

<400> 47  
gacctgtgga acacccccag gggcctcctg ttccgagact gaatgtggcg ggccaaactg 60  
cagaactgac gaaggagaga ggaagtgtgg ggggcctggc tgtggtggctc tggttactgt 120  
tgcacacaac gcctggcaga aagccatgga cttggaccaa gatgtcctga gtgccctggc 180  
tgaagtggaa cagctctcca agatggtctc tgaagcaaa 219

<210> 48  
<211> 279  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 001120H1

<400> 48  
tctcttggta aatacggcat catctgcatg gaggatttga ttcatgagat ctatactggt 60  
ggaaaacgct tcaaagaggc aaataacttc ctgtggcctc tcaaattgtc ttctccacga 120  
ggtggaatga agaaaaagac caccattttt gtagaagggtg gagatgctgg caacagggag 180  
gaccagatca acaggcttat tagaagaatg aactaagggtg tctaccatga ttatttttct 240  
aagctgggtg gttataaac agtacctgct ctcaaattg 279

<210> 49  
<211> 230  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1285380H1

<400> 49  
ttttcacatt tgattatgaa aatctccaaa catatgcaca agcagagatc atggtataat 60  
aaatcccttt gcaactccac tcagcctga caaccatcc acacacggcc aggctgttt 120  
atctacactg ctgcccactc ctctctccag ctccacatgc tgtacctgga tcattctgaa 180

gcaaattccg agcattacaattttgtcc ataaatattt ctaacatcct

230

<210> 50  
<211> 199  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1636639H1

<220>  
<221> unsure  
<222> 153, 165, 179-180, 184, 195  
<223> a, t, c, g, or other

<400> 50  
cgacagggat ctggggccca acaccacat caaactctcc taggcatgc caagaccag 60  
gacataggac ggaccctggg taccagaag aggagtctt gtcactaac ccgatccgc 120  
ctcgtgcccc tgcctcctgg agcttcccat tcnaggagaa aaggntccat ttcccagcnn 180  
ttcnttgccc ctganattt 199

<210> 51  
<211> 240  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1985870H1

<220>  
<221> unsure  
<222> 106, 111, 118  
<223> a, t, c, g, or other

<400> 51  
tgccccttcc gtccgtggcc agagcttctc agtgtggatc ttgtgtgaaa gtcactgcct 60  
caaggtggcc gtggatgggc agcaactgtt tgaatactac catccnctga ngaactgncc 120  
aacaatcaac agactggaat ggggggagac atccagctga cccatgtgca gacataggcg 180  
gcttctctggg cctggggcgg ggggtggggtg tggggcagtc tgggtcctct catcatcccc 240

<210> 52  
<211> 402  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1677936T6

<400> 52  
aaagaagcac tgcattgtcaa acattatgaa aatactatgt atgagagaat aaagtatttt 60  
ggaaaaacaa acggataaatt ctttaaatcc agaactactt tttatcttct gatatcatag 120  
aaacaatgtc attgtaaact tcttgagggg catccattgc ccagataaag tccaagtgat 180  
tgtaaaaagg aatctccttg tggtaaataa gattggggag ttttgaagc aaaaggccaa 240  
catcttgggg gtcagccaac aggtccttgc caccgttcca cactgcaatt ggtacattca 300  
tggctgtcac attgtagtag ggaggttggg actgatcata gtgcatecta ttctgaactg 360  
ggcttcccca gtcataagct tgggaatttcc cagacttaac ag 402

<210> 53  
<211> 171  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature

<223> Incyte ID No: 910612H1

<400> 53

```
gaccagcgag gacagtctcc atcacctacg gcaccggcag catgacaggc atcctcggat 60
acgacactgt ccagggttga ggcattctctg acaccaatca gatcttcggc ctgagcgaga 120
cggaacctgg ctcttcctg tattatgctc ccttcgatgg catcctgggg c 171
```

<210> 54

<211> 263

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2594407H1

<400> 54

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gcagaactca gagctgctct tcctctgtgg ccagttgggg accagcatca tgaagtggat 60
ggtggtggtc ttggtctgcc tccagctctt ggaggcagca gtggtcaaag tgccctgaa 120
gaaattttaag tctatccgtg agaccatgaa ggagaagggc ttgctggggg agttcctgag 180
gacccacaag tatgatcctg cttggaagta ccgctttggg gacctcagcg tgacctacga 240
gccccatggc tacatggatg ctg 263
```

<210> 55

<211> 105

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 963536H1

<400> 55

```
gggggtgcct ttggagcaga gaggaggcaa tggccaccat ggagaacaag gtgatctgcg 60
ccctggtcct ggtgtccatg ctggccctcg gcacctggc cgagg 105
```

<210> 56

<211> 242

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 434377H1

<220>

<221> unsure

<222> 29, 60, 72, 84, 86, 144, 159, 162, 179

<223> a, t, c, g, or other

<400> 56

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gcaaaactgg acaatgtcca aaccactna tgactgcatg acggagccga gccatgtgtn 60
tttacaactc gntgttgta catntnaggg aactgacct caggcacaac ttgcagaagg 120
caaggccctg ccctgccaa cctntgtggt caccatgna tnttccactg gaacgtttna 180
ctgcaaacac aacttgga agtggcatca gtcaacagag aggggcaggg aaggagacaa 240
ca 242
```

<210> 57

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2121863F6

<400> 57

```

agacgctgac ctctgggggc cacgctgagc acgaaggcaa accctactgc aaccacccct 60
gctacgcagc catgttttgg cctaaaggct ttgggcgggg cggagcgaga gccacacttt 120
caagtaaacc aggtggtgga gaccccatcc ttggtctgtt gcagggccac tgtccaggca 180
aatgccaggc cttgtcccca gatgcccagg gctcccttgt tgcccctaata gctctcagta 240
aacctgaaca cttgg                                     255

```

<210> 58  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1597231T6

<220>  
 <221> unsure  
 <222> 287  
 <223> a, t, c, g, or other

```

<400> 58
aaccacttaa agctcaccat ttcttttggat tcttacaaga acttttcttta tggaaggaaa 60
cattatcctc ttttcatctc ctagataaaa aggtaaatta tttagcatat aaatgatttt 120
cccaaggcta attcggacga gacagtagag ctgggatttg gatctagttt tctctgagtc 180
aaattcctct gatctttctt gaaagtcact ttcattttgt cccaacacat ctgagcagac 240
accagtgggt tcagaacacg tgccatgtct tcttactttc cttgccncct ttctttctta 300
acaatattac acctgagg                                     318

```

<210> 59  
 <211> 154  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 4174437H1

<220>  
 <221> unsure  
 <222> 36  
 <223> a, t, c, g, or other

```

<400> 59
tgcaggtgac cccagccatg aggaccatcg ccatcnttgc tggccattct cctggtgggc 60
cctgcaggcc cagggtgagt cacttccagg aaagagctga tgagggtaca acccagaagc 120
agtctgggga agacaaccag gaccttgcta tttc                                     154

```

<210> 60  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2182901H1

<220>  
 <221> unsure  
 <222> 239, 244, 256, 267, 270  
 <223> a, t, c, g, or other

```

<400> 60
cagcgaccct agccatgaga accctcacca tctcactgc tgttctctc gtggccctcc 60
aggccaaggc tgagccactc caagctgagg atgatccact gcaggcaaaa gcttatgagg 120
ctgatgcca ggagcagcgt ggggcaaatg accaggactt tgccgtctcc tttgcagagg 180
atgcaagctc aagtcttaga gctttgggct caacaagggc tttcattgcc attgcagang 240
gtcntgttat tcaacngaatt attctanggn actgcatgtc atgggaaaaa ccaa       294

```

<210> 61  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1747979T6

<220>  
 <221> unsure  
 <222> 12, 34, 69, 87, 97, 102, 131-132, 136, 151, 246, 250-252, 254-256, 262, 281, 297, 327, 350, 353, 356, 358-359, 367, 372  
 <223> a, t, c, g, or other

<400> 61  
 tattcagatg angcactttc aatgtatgtg tttnggggtg tgtgtatgtg tgtgcgcatg 60  
 gggaacagng aggtggtgca ggataanaaa tactgttnagg gngaagggaac actcccccaa 120  
 gctggcagga nnatgnggca gcaatgtaca naggcctcggg agtagagtcc agggacaggg 180  
 aggtgggttc aaggctggct tggaggccaa ggggtgtccc cttagctcaa gaagccacag 240  
 aaattngtgn nncnnngggg tngggccatg agcatgggca nctgggttctt gtgggtnatc 300  
 ttgattgtac agggcgtctg catccanggt tctccgtcaa tttgcatggn aangntnnt 360  
 gtgggtgngga angtgatctc agagcacttg gccagccgac gtccagca 408

<210> 62  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1630553H1

<400> 62  
 gattttcttca cctccctggg gctgctgccc gtgcctcctg agttcttgaa caagtcgatg 60  
 ctggagaagc caaccgacgg gcgggaggtg gtctgccacg cctcggcctg ggacttctac 120  
 aacggcaagg acttccggat caagcagtgc accaccgtga acttgaggga cctgggtggtg 180  
 gccaccacg aaatgggcca catccagtat 210

<210> 63  
 <211> 296  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 478960H1

<220>  
 <221> unsure  
 <222> 3, 21, 33, 67, 151, 162, 165, 262, 295  
 <223> a, t, c, g, or other

<400> 63  
 ttncctgccg gcaaggccat ntgggtcacg ggntggggac acaccagta tggaggcact 60  
 ggcgcgntga tcctgcaaaa ggggtgagatc cgcgatcatca accagaccac ctgcgagaaac 120  
 cttctgccgc agcagatcac ggcgcgcatg ntgtgcgtgg gnttntcagc ggcggcgtgg 180  
 acttctgccca gggtgatttc gggggacccc tgtccagcgt ggaggcggat gggcggtatc 240  
 ttcagggcgg tgggtgagc tngggagacg gtgcggtcag aggaacaagc caggng 296

<210> 64  
 <211> 262  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<223> Incyte ID No: 2922487H1

<400> 64

```
tgtctctggc tgtctcgagc agtctagaag agtgcatttc cagcctatga aacagctggg 60
tctttgggtca taagaagtaa agatttgaag acagaaggaa gaaactcagg agtaagcttc 120
tagcccccctt cagcttctac acccttctgc cctctctcca ttgcctgcac cccaccccag 180
ccactcaact cctgcttggt tttcctttgg ccatgggaag gtttaccagt agaatccttg 240
ctaggttgat gtgggccata ca 262
```

<210> 65

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2921152H1

<400> 65

```
catccctctg ctctctggcc tccagcctcc cagcagcatg gctttcaccg gcaagttcga 60
gatggagagt gagaagaatt atgatgagtt catgaagctc cttgggatct ccagcgatgt 120
aatcgaaaag gcccgcact tcaagatcgt caccggagggt cagcaggatg ggcaggactt 180
cacttggtcc cagcactact ccggggggcca caccatgacc aacaagttca tgttggcaag 240
gaaagcaaca tacagaccaa tgggggggcaa gacgttcaag g 281
```

<210> 66

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1846428H1

<220>

<221> unsure

<222> 216, 222, 225, 229

<223> a, t, c, g, or other

<400> 66

```
caggaggggt caccgtgcag gatggaaatt tctccttttc tctggagtca gtgaagaagc 60
tcaaagacct ccaggagccc caggagccca ggggtgggaa actcaggaac tttgcaccca 120
tccttggtga acctgtggtt cccatcctct gtagcaaccc gaactttcca gaagaactca 180
agcctctctg caaggagccc aatgcccagg agatanttca gnggntggng gaat 234
```

<210> 67

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2796143H1

<220>

<221> unsure

<222> 3, 27, 43, 57, 64

<223> a, t, c, g, or other

<400> 67

```
gcngctgagc ctggcccatg gcgcaantgg tggcgggctg aangcggagc cgtggcngtt 60
tctnccccc tgctgggatc ggctgctccc tcttctgggc gtctggcg cgggaccgac 120
aacgcagcaa tccaacgaac ttctgcctgg tgctgaaggt ggtggggcaa gatgccgggc 180
ctccatgcct aggtggtggt acaatgtcac tgacggatcc tgcccagctg tttgtgtatg 240
ggggtgtga cggaaaca 258
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<210> 68

<211> 370  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1805613F6

<220>  
 <221> unsure  
 <222> 155  
 <223> a, t, c, g, or other

<400> 68  
 gtcaccctgc cctgcaccta ccacacttcc acctccagtc gagagggact tattcaatgg 60  
 gataagctcc tcttcaactca tacggaaagg gtggatcatc ggccgttttc aaacaaaaac 120  
 tacatccatg gtgagcttta taagaatcgc gtcanatc caacaatgct gagcagtcgg 180  
 atgcctccat caccattgat cagctgacca tggctgacaa cggcacctac gagggttctg 240  
 tctcgctgat gtcagacctg gagggcaaca ccaagtcacg tgcccgctg ttggctctcg 300  
 tgccaccctc caaaccagaa tgcggcatcg agggagagac cataattggg aacaacatcc 360  
 agctgacctg 370

<210> 69  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1431273H1

<220>  
 <221> unsure  
 <222> 20  
 <223> a, t, c, g, or other

<400> 69  
 tgacactgac tgggcccattn aggacagtgc tcaggctgga gaagtggatc acaccttgtt 60  
 gggacaatgc acaggtgccg gctacttcat gcagttcagc accagctcgg ggtccgcgga 120  
 agaggcagcc ctactggagt ctcggattct ttacccaaag aggaagcagc agtgccctgca 180  
 atttttctat aaaatgacgg gaagtccttc agacagactc gttgtctggg tcagg 235

<210> 70  
 <211> 279  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1804662H1

<400> 70  
 ctgtgaccaa gttgactctg aggccttggg gggctgcctg cggggcaaga gtaaagagga 60  
 gattcttgca attaacaagc ctttcaagat gatccccgga gtgggtggatg gggctcttct 120  
 gccaggcac cccaggagc tgctggcctc tgccgacttt cagcctgtcc ctagcattgt 180  
 tgggtgtcaac aacaatgaat tcggctggct catccccaag gtcattgagga tctatgatac 240  
 ccagaaggaa atggacagag aggcctccca ggctgctct 279

<210> 71  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2921194H1



<220>  
 <221> unsure  
 <222> 265  
 <223> a, t, c, g, or other

<400> 71  
 gcacctcctc gccagcagcc gtccggagcc agccaacgag cggaaaatgg cagacaattt 60  
 ttcgctccat gatgcgttat ctgggtcttg aaacccaaac cctcaaggat ggcttggcgc 120  
 atgggggaac cagcctgctg gggcaggggg ctaccaggag gcttctatcc tggggcctac 180  
 cccgggcagg cacccccagg ggcttatcct ggacaggcac ctccaggcgc ctaccatgga 240  
 gcacctggag ttatcccga gcacntgca 269

<210> 72  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 395368T6

<220>  
 <221> unsure  
 <222> 29, 77, 88, 91, 94-95, 102, 105-106, 153-154, 157, 179-180, 182, 187,  
 211-213, 219, 229, 255, 260, 270, 274, 279, 286, 291, 300-301, 303, 305,  
 311, 313, 316, 319-321, 323, 332  
 <223> a, t, c, g, or other

<400> 72  
 atatttttat gtgaaatgtg gttgtatana ttagaaataa gatttacaca tttcaaagca 60  
 cactactgca aaaatanatt atttttancc nccnactct cnttnmagct ttgcctgctc 120  
 agatctcaat ctaccagta gccctttatg ctnggnttt ctcaagacc tcttcttcnn 180  
 gngagtngac tcttcctttt tcttccccat nnnctgcng acaattttnc attaggttct 240  
 tacttaggat cactnttacn atcatcttcn gttncatcng atcttncctt ntgtttgccn 300  
 ntncnttgct nancangcnn ncnccaacta gnac 334

<210> 73  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2182861H1

<220>  
 <221> unsure  
 <222> 11, 27, 47, 50, 53, 56, 277, 289, 298  
 <223> a, t, c, g, or other

<400> 73  
 cccacccccca ncactgtgca gacgacnacc actcagtgtc tggattncan tgnccngtcc 60  
 actctccaca cccagcatca tcaggaccac aggcctgagg ccctaccctt cctctgtgct 120  
 tatctgctgt gtccctgaacg acacctacta cgcaccaggg gaggaggtgt acaacggcac 180  
 atacggagac acctgttatt tcgtcaactg ctactgagc tgtacgttgg agttctataa 240  
 ctggctcctgc ccatccacgc ccttccccaa caccangcc ctccaagtng gacggccnag 300  
 g 301

<210> 74  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1806436T6

<220>  
 <221> unsure  
 <222> 420, 423-424, 426-427  
 <223> a, t, c, g, or other

<400> 74  
 aaacatttca atactttttg ctactttctat aatctttttg caaggcagtc agttacagtc 60  
 caaatgggaa aatataaaca aaattacaca ttttatcttt taaaatctac ttttaattctg 120  
 ttataaaatt tataatgcag tttaaactat gattttctct cacttgatga tgtctctcac 180  
 tctgttcctt taattacgaa gtctctgaag actctgaact tgactgagga aatgttaaac 240  
 agatacctct tcataattct gtaagtgttt gcttttaact ttgaataaat gtcataatcta 300  
 aacaaatatt aaaaagtatt taacatctca tacagtcaga gttcactggc gctttgttcc 360  
 agcctggaca ctgaccattg aaaaatagat gcctttctgt gccagcagct gctgatgcgn 420  
 gcnnngnncct tggactctgg ccattctgaa acaccactat taagtctgca ttctggatgg 480  
 tggacaggcg gtgagcaatc acaatgcagg tgccggccttc tctgggcttt gtccagg 537

<210> 75  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2922143H1

<400> 75  
 gtttggccag atttgcccaa cataacaata gataaaaactc taacggaaga tgaagctgtt 60  
 aatgcttcca gagctcatgt agctttccca gattttcttca ggacttccac agcagagtgg 120  
 tgggccagag aaatttgtgga cttttacaat gaaaagatga agtttgatgg tttgtggatt 180  
 gatatgaatg agccatcaag ttttgtaaat ggaacaacta ctaatcaatg cagaaatgac 240  
 gaactaaatt atccacct 258

<210> 76  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 876720H1

<400> 76  
 ccgacaccgg gccttgcgca cagcccccat ccagccccgt gtctgggagc ctgtgcctct 60  
 ggaggagggt caattgggtg tggagccaga aggtggagca gtagctcctg gtggaaccgt 120  
 aacctgacc tgtgaagtcc ctgcccagcc ctctcctcaa atccactgga tgaaggatgg 180  
 tgtgccttg ccccttcccc ccagccctgt gctgatcctc cctgagatag ggcctcagga 240  
 ccagggaacc tacag 255

<210> 77  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1910091H1

<400> 77  
 gacgagagga cccgcatacct ggccccccagc ccggactccc tgctccacac acctctgatt 60  
 atcaaggagc tctccaaggt gtacgagcag cgggtgcccc tcctggccgt ggacaggctc 120  
 tccctcgagg tgcagaaagg ggagtgtctt ggctgtctgg gcttcaatgg agccggggaag 180  
 accacgactt tcaaaatgct gaccggggag gagagcctca cttctgggga tgctttgtcg 240  
 ggggtcaaaa atca 254

<210> 78  
 <211> 61  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2174130T6

<400> 78

atagaagacg ggtagtacct gaagtgggtc cacttccttt atttgggggtt gtttcatgaa 60  
a 61

<210> 79

<211> 247

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2219077H1

<220>

<221> unsure

<222> 231

<223> a, t, c, g, or other

<400> 79

gctgattgga gtcagctgga acataccact gcctctagac taaggccagc agatttagca 60  
aatacagact gcccagttc attgaatttt agataaatga aataaatcta taaggttaag 120  
tatgtcccca gaactgcatg gaacatgtta atctaaacaa tgatttggtt ttcacctgaa 180  
attcaaattt agctgggtgt cctgtatttc atctggcaac cctacttcag ncccagggtg 240  
aaggtac 247

<210> 80

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1965041H1

<220>

<221> unsure

<222> 6-7, 27-28

<223> a, t, c, g, or other

<400> 80

gaaggngga aagaagggag ggaaacnngg agaaagggaa aaagaagaaa aagagaaaga 60  
tgaaaatagg aacaaataaa gacaaacaac attaagggcc atattgtaag atttccatgt 120  
taatgatcta atataatcac tcagtgaac attgagaatt tttttttaat ggctcaaaaa 180  
tggaactga aagcaagtca tggggaatga atactttggg cagtatcttc cggatgtctt 240  
cttagctaa 249

<210> 81

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1649959F6

<220>

<221> unsure

<222> 282

<223> a, t, c, g, or other

<400> 81

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cgctcctcct cgccccgcg aggtccatc ccggcccagc caccatgtcc atccacttca 60
gtcccccggt attcacctcg cgctcagccg cctggaggcg agtgccggaca tgcaggatgt 120
gggtggaggac ttcaagaata agtacgaaga tgaaattaac cgccgcacag ctgctgagaa 180
tgagttttgtg gtgctgaaga aggatgtgga tgctgcctac atgagcaagg tggagctgga 240
ggccaagggtg gatgccctga atgatgagat caacttcttc angaccctca atgagacgga 300
gttgacagag ctgcagtccc agatctccga cacatctgtg gtgctgtcca tgggacaaac 360
agtcgctccc tggacttgga cggcatcatc
390

```

<210> 82  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1222317H1

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<400> 82
aaccctctct cctcagcgct tcttctttct tggtttgatc ctgactgctg tcatggcgtg 60
ccctctggag aaggccctgg atgtgatggg gtccaccttc cacaagtact cgggcaaaga 120
gggtgacaag ttcaagctca acaagtcaga actaaaggag ctgctgacct gggagctgcc 180
cagcttcttg gggaaaagga cagatgaagc tgctttccag aagctgatga gcaa 234

```

<210> 83  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2510171H1

<220>  
 <221> unsure  
 <222> 48  
 <223> a, t, c, g, or other

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<400> 83
atgaagtcca gcggcctctt ccccttctct gtgctgcttg ccttggnac tctggcacct 60
tgggctgtgg aaggctctgg aaagtccttc aaagctggag tctgtctctc taagaaatct 120
gccagtgcc ttagatacaa gaaacctgag tgccagagtg actggcagtg tccagggaag 180
aagagatgtt gtcctgacac ttgtggcatc aaatgcctgg atcctgttga caccctaaac 240
ccaacaagga ggaagcctgg gaagtgccca gtgacttatg gccaatgttt gatgcttaac 300
cccccaatt tctg
314

```

<210> 84  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1988674H1

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<400> 84
gtgggagccg atgacctatg ccaagagtgt gaggacatcg tccacatcct taacaagatg 60
gccaaggagg ccattttcca ggacacgatg aggaagttcc tggagcagga gtgcaacgtc 120
ctccccttga agctgctcat gcccagtgcc aaccaagtgc ttgacgacta cttccccctg 180
gtcatcgact acttccagaa ccagactgac tcaaa
215

```

<210> 85  
 <211> 120  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<223> Incyte ID No: 192640H1

<400> 85

ggcctccgcg tggcccagtg ctcccagaag ccctgtgagg acagctgtcg gtcgggcttc 60  
acttacgttc tgcatagaag cgagtgtgtg ggaaggtgcc tgccatctgc ctgtgagggtg 120

<210> 86

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1926543H1

<400> 86

tggacatctt cgagatcaat gaggcctttg caagccaggc tgcctactgt gtggagaagc 60  
tacgactccc ccctgagaag gtgaaccccc tgggggggtgc agtggcctta gggcaccac 120  
tgggctgcac tggggcacga caggatcatca cgctgtctcaa tgagctgaag cgccgtggga 180  
agagggcata cggagtgggtg tccatgt 207

<210> 87

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1504934T6

<220>

<221> unsure

<222> 13, 234, 251, 289, 426

<223> a, t, c, g, or other

<400> 87

gctcatggcc tgnngggactg cagctcattt ggaaggcact gggttttgcg cccaagtga 60  
ctgtttccag gaggtgccac tggagggaaa agggctgcct gggggccaggg aggctgcctg 120  
gttctgcctc ccgggctggg tcagtggctt tctgtcccc aggcctggag gacctgcag 180  
ggctctgtttg ctctgatcc ctccagggtgg gcatgggaca ggtgtgtgcc agtnccagct 240  
gtgtgccagt nggcagggtca cagcttcttc ttggggcagt gctgcaggnc cgccctcagg 300  
gcctccgtca cgcgggtccac attctcgcg gtggcattgc agcccagcag gccgatccgc 360  
agcaccttc ccgtggaggg cccaaggcca cccatgatct caatgtcgaa gtggtccatg 420  
acgtanctga cgatgtctct ccagtcatag ccagcgggta cagccacagt ggtgact 477

<210> 88

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2512879T6

<220>

<221> unsure

<222> 188, 463

<223> a, t, c, g, or other

<400> 88

agctgatgtt caacacttta tttagttctc atttgattt taaacatttg cttgaaaaat 60  
aattttacat caatttccat ttctttggaa agccccaaa tgtaatttat tgataaaatc 120  
tgtgatgagc agaattaatg atatttccca gctgttgctc cagatcatgt agggtagagg 180  
aggctganga ctgccacaag ggaaaacatc tgtattgtct caaaacatca gaatggtacg 240  
gatacttttc ccagagtga gagggtcaaa tccttcattt attttttcaa aaggtaaaac 300  
atgggttatt aatgcatcca atgaaaactt cttagccata aaatcagcca caagttttgg 360  
gacacattct ttacttttta agccaccaag aatagctccc ttccagggtac gtccagtcag 420

tagcagcata gggttcattg agaggtttgg gatcaggagg tancctacg atgacacttg 480  
 tgccacatgc ctcatgacac ataccagga agccatcatg gtgtcagccg 530

<210> 89  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1359832T6

<220>  
 <221> unsure  
 <222> 134, 172, 288, 298, 319, 321, 327-328, 359  
 <223> a, t, c, g, or other

<400> 89  
 atatgaaata gaatgtagat attgcaacaa tagcattttt ggagacagct acctccttta 60  
 ccaggaataa tctttgcatg tcacatttag agataaagct caaaatgcaa atccttcccc 120  
 tgagagtggg aaancattaa caaatgagag tgggaaaagc attaacaaag cnttaacaca 180  
 ggtctttaca tattcaaaat attaaactaa tgctaggatt atagacttga ttttaagaca 240  
 tggtagttaa tagaaaagtt ctagattgaa aacaattttg caaaaatnta catttgtnta 300  
 tgtgtatata tgtatgtgna natatanntc tactagggaa atatagtgtc taagggtgnt 360

<210> 90  
 <211> 597  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1583076T6

<220>  
 <221> unsure  
 <222> 201, 260  
 <223> a, t, c, g, or other

<400> 90  
 gttgatgttc aacactttat ttagttctca tttggatttt aaacatttgc ttgacaaata 60  
 atttcccatc aatttccatt tctttggaaa gctcccacgt gtaatttatt ttttaacatct 120  
 ctgaagagca gaattaatga tatttcctag ctggtgctcc agatcatgta gggtagagga 180  
 ggctgaaaac tgctacaagg naaggcatct gtattgtttc aaaacgtcag gacggtacgg 240  
 atactctttc cagagcgaaan aggtcaaata cttcatttat tttttcaaaa ggtaaaatat 300  
 ttgttattaa tgcattccagt gaaaacttct tagccataaa gtcagccaca agtttgggga 360  
 cagattcttt actcttaaag cctccaaaaa tagctccttt ccacgtgcgt ccagtcagta 420  
 gcagcatagg gtttattgag aggttctggg aatcaggagg tacccttaca atgacacttg 480  
 tgccacatgc ctcatgacaa cataacaggg aagccatcat ggtgtcaagc cgaccgatga 540  
 cttcaaacga aaaatccaca cctccatcag tcatttcctt tagcatttc tgaatgg 597

<210> 91  
 <211> 359  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 139838H1

<220>  
 <221> unsure  
 <222> 5, 13, 17, 23, 34, 38, 44, 68, 89, 159, 161, 310, 346, 357  
 <223> a, t, c, g, or other

<400> 91  
 cacnggggaa agncagncct ggnctataca accncagntg ggnatcatg tacttttcatt 60

```

ggagtagntg ctggtagcaa aggattgant gtttttccag aggagctaataatcggccgt 120
actataaatg gaacattctt tgggtggttg aaaagtgtng nttctatccc aaagctgggtc 180
actgactata agattaagaa attcaatctg gatgcactgg tgaccatac cctgcctttt 240
gacaaaatca gtgaggcatt tgacctaattg aaccaaggaa aaagcatccg aacaatcctc 300
atcttttgan gatgccagga gcaattcgga atactatctg attgantgtg aacctgnct 359

```

```

<210> 92
<211> 249
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1344654H1

```

```

<400> 92
ggagggcagg catcggggag ccggggagcct gaccctcatc tttcttccaa acaggctcag 60
aggggtgtcct gcaccggggc ctgggcagga gggaggtgct tctagttctg ccaggagaca 120
ggttagctgc tccccacgtc agctgggaca ccccgacttt tgtttaccag agaaaaaggg 180
agggggagag ggctgccttt ggacttgtcc cgggacacct aggctagggt ggggagagac 240
gggccttg 249

```

```

<210> 93
<211> 254
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2513979T6

```

```

<400> 93
gacaggagct ctaggactgg ccagtgggtg ttctagaggc cagctggggt tggaagacaa 60
tgggtctggac acttacttgg gtggcaggct gtgttccaag ttccacgaaa tagctcaaga 120
agttaaccag ttccgttcca gccttcttga tcaggggtgt cagctgctcc tttgactttt 180
caaagtaaga cttggcctcg gcctgaagct ctggggctct tgaccttctc catcagggtcc 240
ttgccatagt cagt 254

```

```

<210> 94
<211> 142
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2369312H1

```

```

<400> 94
agaaactcaa gattgactca tgaggacctg aagggtgaca tcccaggagg ggcctctgaa 60
atttccaca cccagcgcc tgtgctgagg actccctcca tgtggcccca ggtgccacca 120
ataaaaatcc tacagaaaat tc 142

```

```

<210> 95
<211> 264
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2048364H1

```

```

<220>
<221> unsure
<222> 257, 260
<223> a, t, c, g, or other

```

```

<400> 95

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```

ctgccagagt ctgggtctctg gacactatgg gcacacgact cctcccagct ctgtttcttg 60
tcctcctggg attgggattt gaggtccagg ggaccaacag ccccagcaag atgagatgcc 120
tagccccgacc ttcctcacc aggtgaagga atctctctcc agttactggg agtcagcaaa 180
gacagccgcc cagaacctgt acgagaagac atacctgccc gctgtagatg agaaactcag 240
ggacttgtag agcaaanttn tttt                                     264

```

<210> 96  
 <211> 285  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 085246H1

<220>  
 <221> unsure  
 <222> 15, 18-19, 33, 36, 39, 46, 67, 105, 125, 140, 204, 207, 229, 232, 272, 274  
 <223> a, t, c, g, or other

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<400> 96
ctcatccaca atganttnnc cagtgtcat ctngtnctng agtttntctt gccatgtggc 60
tattgcngga cggatgggtcc gttaaaaaca ttctatgagc caggngaaga gattacgtat 120
tcctncaacg gggctatgtn tccgaggagg gatgagaaag tttatctgcc ctctcacagg 180
actttggccc atcaacactc tganatntac acccagagta tgtcctttng cntgaatctt 240
agaaaatggg agccgtacgc tatacgactt tngnatatcc caaca                                     285

```

<210> 97  
 <211> 418  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 166337T6

<220>  
 <221> unsure  
 <222> 45, 96, 129, 270, 277, 300, 307, 322, 333, 353, 364, 366, 373-374, 385, 391, 397, 408  
 <223> a, t, c, g, or other

```

<400> 97
gaatgacatg gacacatagt acctttccac atgtggtagc tttgmctcct gattccaaga 60
gtcccactct atgtatgggg gcttatgtaa gtgtgnntat ttttaatgcc agcaaatttt 120
taattggana tcaatgtaca cttctctttc taaggataag tcttttgcca agttagaaaa 180
tataagcttt taaatttcaa aaaagttaga atttccacat cttgaatttt acaccaagag 240
ggaatttgta gagtttatac taattggaan aacattnttc tgaaagaaca agtctttagn 300
aggatanctc tatgcttaag anaatgatta gcnttctaata tatgccatta acnatgagat 360
ttanancgga tgnntccaca tttanttagg ngggtnnagg tagtcaanag gcttgtaga 418

```

<210> 98  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 138274T6

<220>  
 <221> unsure  
 <222> 539  
 <223> a, t, c, g, or other

<400> 98



```

acaatgataa cctgcaaact gcagaaagcg ccacggggtt caagctcctc accttcggaa 60
catcacccta tccttcccct tcccttaaaa tcctagatga aaattcccga gaaagcagaa 120
gaggccccca gatgggcgga ttcccaatcc cggacccctg cggcaggtcg aggcatgaa 180
gaaataaatt aaaggagagg tggctcctgg ctggccttgt ccagctctgt ctgcgagacc 240
cagcggtagg gcctctggca gacgtcgtcg ttccagcggc cgtcgtcggg gaagtgggca 300
cagtcctcgc ctccctccgag ccggtggccg taccagtcgt ccggtcgtc cggcctccag 360
ttcttgaagc ccgtctcgta gtccgtcccg tccaccact tccagggccc gttttggtcg 420
tggaggccca tccagggtgt cacagggcct atgtggtgct ggacaaattt ctgctcctcc 480
caggaacgtg accaccacca ggtgcgcgtc ctccagcggg cagtagttgt cggcgtaanc 540
caaggccttt cccggaagcg agaaga

```

<210> 99  
 <211> 459  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1633340T6

```

<400> 99
aatattaagg cataacaaag taaactgaaa tgaagtttag ttatcaatat tcatctctga 60
gaaagtgtg aatcagttcc tttagataac atgtggctca ggttgattta ataatggggc 120
tggggtgtct gcattcttat gctgcttttc cagcactgta ctgcctgtag tggaaaagac 180
tcttgagtc caccttgcca gatttctgca cagcttcagc aaaaagtgtg gtcacctgaa 240
aattagtgag gagagggatt ccactatcaa cagctgtcct ccgaatcaca taattatcat 300
ggacaaattt agtggtgttg ttgggaagggt taatcactag gtcaatgctg ccatctctaa 360
tcaattttct gatggaagag aggctgggat tctgtccttc ttgagacggc catgccactg 420
gggttgacgg gacattgttg gcgtgagcca gctctgatgt

```

<210> 100  
 <211> 83  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1982416H1

```

<400> 100
cagagagttc tacagttact ccaacattac caggtgaaac tctcacttac gtatggaaaa 60
tcccagaaag atctggagct gga

```

<210> 101  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 946822H1

<220>  
 <221> unsure  
 <222> 19, 21, 34, 114, 130, 135, 139, 143, 210, 217, 243, 261, 277, 299  
 <223> a, t, c, g, or other

```

<400> 101
gaaaaactgt gaattattna nacggaagct ctgnagcctg gacaacgggg actgtgacca 60
gttctgccac gaggaacaga actctgtggt gtgctcctgc gccgcgggt acancctggc 120
tgacaacggn aaggncatgna ttncacagg gccctacccc tgtgggaaac agaccctgga 180
acggaggaag aggtcagtg ccagggccan cagcagnagc ggggagggcc ctgacagcat 240
ganatggaag ccatatgatg nagccgacct ggaccnacc gagaaccctc tcgacctgnt 300

```

<210> 102  
 <211> 210  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2517330T6

<220>

<221> unsure

<222> 204

<223> a, t, c, g, or other

<400> 102

```
cactgtcctc tggggcagcc ggcagaagat cccctgccct ggggtggcagg gccctgatct 60
gaggctgggt tcacggagga caggcagcgg gcaccccaact ggtgggggtcg tctctcgggg 120
cactgacttc tcagcactgg agctgtgtgc cggcctcacc tctcacttc gtccaggacg 180
tggaactggt ctgcagcctc gcanaagccg                240
```

<210> 103

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2516489H2

<220>

<221> unsure

<222> 94, 134, 152, 173, 176, 181, 189, 201, 203-204, 224, 229

<223> a, t, c, g, or other

<400> 103

```
ctgagatcca ccagggtttc cagcacctgc accaactctt tgcaaagtca gacaccagct 60
tagaaatgac tatgggcaat gccttgtttc ttgntggcag cctggagttg ctggagtcac 120
tctcagcaga catnaagcac tactatgagt cngagggtctt ggctatgaat ttncangact 180
ngggaacanc cagcagacag ntnnacagct atgtcaagaa taanacacng ggggaaattt 240
t                241
```

<210> 104

<211> 228

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 088741H1

<220>

<221> unsure

<222> 49, 98, 126, 185

<223> a, t, c, g, or other

<400> 104

```
gaaacacctg ccaggaccac agcaacaggc ctttaatttg ctgcaaggnc tggaggactt 60
catagccaag aaggtggagc acaaccagcg cacgtgtntc ccaattcccc acaggacttc 120
atcgantcct ttttcatcca catgcaggag gcaccgagac ggtcagcacc accctgcgct 180
atggnnttctt gctgctcatg aagcaccagc aggtggaggc caagggtcc 228
```

<210> 105

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 168865T6

<220>  
 <221> unsure  
 <222> 496  
 <223> a, t, c, g, or other

<400> 105  
 atctaaatta tcattcatta atcaacttttc tgtgtttttac agtgataaca tattaataaag 60  
 tcagcattag aaaagtatta gcatatgcag caattaatac aagtgttaca gagtatgaat 120  
 aattgcagat atatttgtgc agtgacctga acaactctcc ttaatggagt ttggatgctt 180  
 atgggatatt gagtgaatgg gaagatttga tgagagggtca gagaagacat aatagtggga 240  
 atgtccttga taaaaaaaga gttgcagggtg atagcagatc ggcagccaga tgggctagca 300  
 ttcttcagac agggatgaag cagatctggt atgagggtgg cagagaaaca atccctttgg 360  
 taactgcagt agtattgagg ttctttaaat catcaacaga tttcagggtta aagttctgta 420  
 aaattgtggt tagaaataaa aatagctcca tgcgggcaag tccttctcct gcacaattcg 480  
 tttctgctg agaaangcca tga 503

<210> 106  
 <211> 390  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 231779H1

<220>  
 <221> unsure  
 <222> 9, 294, 310, 376  
 <223> a, t, c, g, or other

<400> 106  
 gaatggacnt tcttgcattt gcctctttca agaaaatctt gtgccttgag aacaccagag 60  
 acctcaaatt actttgtgaa tagaactctg aaatgaagat gggcttcac caatggactg 120  
 cataaataac cgggggattct gtacatgcat tgagctctct cattgtctgt gtagagtgtt 180  
 atacttggga atataaagga ggtgaccaa tcagtgtgag gaggtagatt tggctcctct 240  
 gcttctcacg ggactatttc caccacccc agttagcacc attaactcct cctnagctct 300  
 tgataagggg aatcaaccaa tttctcaata aatttccttc acaaaattta ttaattggaa 360  
 ataaaggatt attttnaatg gctctaacc 390

<210> 107  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 234123H1

<220>  
 <221> unsure  
 <222> 110, 178  
 <223> a, t, c, g, or other

<400> 107  
 attccggccc tgatgggtcac ggaggagaag gacttcgtgc tcgttcctca gatgtcccag 60  
 cacatggagg actggattcc ccacctgaaa aggggacaca ttgaggactn tgggcactgg 120  
 acacagatgg acaagccaac cgagggtgaat cagatcctca ttaagtggct ggattctnat 180  
 gcccggaacc caccggtggt ctcaaagatc 210

<210> 108  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1833801T6

```

<400> 108
cacagtaaca attgaaactg cctcgactaa attttaagtt tctggggcag caccacctga 60
aggcagtgac tgccttttta aaagacaggg ttctgacatt cagagatttc tgtttctcta 120
tccatcattt ttgggcattc tgaatcacct gatttagagt cagtgcacac ctgactggat 180
tggttctgct ctgctgggc gggtgagacc ccagaccca cgtccacagt gcacctgatg 240
ttctcccagc ggtcgctact tcccccaagga ggccaggtag gcataccaga acagagctgc 300
caggttggcg aagagcacc ggaacttcag agggacgtag ttgatgttga tgaactgtag 360
tggcgctccac acccgccagt tcctcctcag cgccggccag aagccccccc tcactctggc 420
ggcgaaggct gaggcgtctt t
441

```

```

<210> 109
<211> 336
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1923613T6

```

```

<220>
<221> unsure
<222> 198, 315
<223> a, t, c, g, or other

```

```

<400> 109
ggatgagcac ggcattggggc ttgaggtgtg tggagggagc tcagcaggcc cagaagcccc 60
cttcaccgga caaagtggaa cccgtgggtc tggcacttcg gtcactcagc agaaagagga 120
tggcggttcac cactgctctt acctcagcaa acttgccaag tgggattcgg ttcagcatag 180
tcttggcctt gtgggggnca ctccaggtgg cctggcccat ggacgtcatc accactgtgg 240
ggtttactgc attcactcgg atcttgtggg gcccgagctc tagggccatc accttggtca 300
gcatgtccag ggcanccttg gtggagcagt agacgc
336

```

```

<210> 110
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2058620T6

```

```

<220>
<221> unsure
<222> 120
<223> a, t, c, g, or other

```

```

<400> 110
ctcacactga aaaaatacta acacagctca tatataaatt acttatctat aagaacaatt 60
atagaaggaa tctaaatggg gcaattttta caaaccaggc aaaatatcac atatacctgn 120
ggataaggta actccaagcc atgagtataa gattaaggca gttactttat tttgaacaag 180
gaagtggcat aagcaactca gtgtgtgccc cttagggtgg gagctcttcc ccctaccact 240
ccccaccca aggcattcatt ttggagaaaa aagtgtcttc tatctggcta gctgtgttat 300
ctaggattgc accttcttac acggcaggcg cggcatcacg tccagatggg catctaagga 360
ac
362

```

```

<210> 111
<211> 162
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1930954F6

```

```

<400> 111
aaaatgactg gcgatgatgc tggaaaccaag gtgctgatcc taccacctac tgctaccttc 60
cttagcttca ccctggctag aaataatcac gaggggttggg tttgctttgg aaaatgcctg 120

```

tctctctact tgaatgataa agaattaaat tagatctctc tg

162

<210> 112  
<211> 186  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1511658H1

<220>  
<221> unsure  
<222> 118  
<223> a, t, c, g, or other

<400> 112  
ctcgagccgc aaagaagtta ccaaagaagt ggtgacctcc gaagatgggt ctgactgtcc 60  
cgaggcaatg gatttaggca cattgtctgg catagggtact ctggatgggt tccgccanag 120  
gcacctgat gaagctgcct tcttcgacac tgcctcaact ggaaaaacat tcccagggtt 180  
cttctc 186

<210> 113  
<211> 523  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2590673T6

<400> 113  
ttcatacatt gtttaaaagg aaaaaggaat catgtcaaaa tgtttcagga aatgatttaa 60  
gttagatata agaacatag ttctgatttt gaagtgttag tggaactcaa acagaaatga 120  
ttagtgctct cttaagatca tgacatgatt cttaaagtgg ctatttcaga gcctagaaat 180  
aacactgtat tactgactaa tgtctacaga gtactgcaaa agatgctgaa tagaaaagca 240  
ggtgggtgtga aaatttttaat ttttaaatag caaagccct gtctgggtat tgtcagtaac 300  
tttcagaaat cctagagaaa atgatgatta ggtcaacaca aggaaaacag cgattaacag 360  
aataggaatt gcaaagagct tcagccaatg gaaaaagaag caaggcttct gaagtctccc 420  
gaccactcgt gtctgcatgg gtttcaacga ccggtccac tgggtcagta tggcatttct 480  
ggctcctggc cactgccctg gggccaccag cctaaactgg tag 523

<210> 114  
<211> 495  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1995380T6

<400> 114  
tataggtttc tcatacgtgc aattctttta tagattcaaa agtgaggtgt tgtgtgaatg 60  
ttacaaatca taacatgatc caaatttata agaaagtact ttaaaaatca gacaaaagac 120  
ttaagaatta ctatgttaaa tttctaattc aaatgtaaaa caagaatata ggatattggc 180  
aatgctaata ttcaaaatgg gttaccccag ttcataatc ctctgctccc ctctaccta 240  
aaatctaaga aagtattcat tataaattgg aagtacagaa ttcttaaaaa gccaaactgga 300  
tggttgagttg tatgattttc tttacaggta caatttactt ttcagcaacc tgtaagccat 360  
ggaaagagta actccatc ccaacaaaaa aactcaaagc tctatttggc tggggaaggg 420  
gtgtccaata tgcaatgggt tggtagatcc gtgctccgac aaatagtctg aagtgacagga 480  
tgggctgtag aaggg 495

<210> 115  
<211> 362  
<212> DNA  
<213> Homo sapiens

```

<220>
<221> misc_feature
<223> Incyte ID No: 167409H1

<220>
<221> unsure
<222> 4-5, 33, 66, 74, 118, 124, 142, 151, 153, 175, 199-200, 245, 283, 351
<223> a, t, c, g, or other

<400> 115
gcannagggga aaccacaaaa tgaatgaaat cnttgaaggc gttcaggaaa gatccaaagg 60
aatatnctaa tcantttatg tgggaatatt ccactaatta cggacaagct cctctttnac 120
tttnagtcag ttacaccaag anttatcttt ntntggtagg gtccctgctgt acctntgcaa 180
gcccactttt atgctttttn aaagagagac tccagcttaa acatttatca cttctcacca 240
ctctntcaaa tagagtctgc tcacaatatg ctgcttatgg ggngaagaaa tcaaggctca 300
gcaatctcat aaagttagcc ccaaaagtgc ctacttctga tctggaggat ntttgccacg 360
ca 362

<210> 116
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1846226H1

<220>
<221> unsure
<222> 87
<223> a, t, c, g, or other

<400> 116
gggacataca gaataggaac aggtgtttgc tctcctaaga gccttcatgc acaccctga 60
accacgagga aacagtacag tcgctantca agtgggtttt aaagtaaagt atattcataa 120
ggtaacagtt attctgttgt tataaaaacta taccactgac aaaagtagta gtcaagtgtc 180
taggtctttg atattgctct tttggttaac actaagctta agtagactat acagttgtat 240
gaatttgtaa aagtatatga acacctagtg agatttcaaa 280

<210> 117
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2052185H1

<400> 117
gccagaccca gacgtgactg aacgctgctc agatggctgg agctttgatg ctaccaccct 60
ggatgacaat ggaaccatgc tgttttttaa aggggagttt gtgtggaaga gtcacaaatg 120
ggaccgggag ttaatctcag agagatggaa gaatttcccc agccctgtgg atgctgcatt 180
ccgtcaaggt cacaacagtg tctttctgat caagggggac aaagtctggg tataccctcc 240
tgaaaagaag gagaaag 257

<210> 118
<211> 315
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2517389H1

<220>
<221> unsure
<222> 45, 51, 156, 159, 281, 313

```

<223> a, t, c, g, or other

<400> 118

```
gccccatggac accacccccca tggacacccat cctcatggac accancccca nggacacccat 60
ccccatggac accatcccca atgccatgat ttccaagact atggaccttg tgaccacca 120
accataaacc aagggtcatgt tgccatggcc acggcncanc acctggggcac ttaagaaggc 180
gaggcccagg taaaggaccc tgtcccttcc attgcagaca aattggatct gtgtaccgac 240
tccctcctct aagaaaagggt gaggtgctgc cacttctga ngccaatttt cccagtttcc 300
attggcgcaa canaa 315
```

<210> 119

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 911015T6

<220>

<221> unsure

<222> 177

<223> a, t, c, g, or other

<400> 119

```
agccatagaa ctttgcaaat gcgtttccat aaaagttctg agttacttga ctatgaaaag 60
tgaattttca ttttaaccaa cccctcctc caatactacc agaaagcatg agattctgaa 120
gaaatcttca caaatctact cttaattatg gttagcaatgt tccagtctca attaggntct 180
gttgggttcc tggagtggga gtgaagtggc tcttgagtgg ctcccagcac ttgtgggagt 240
tctcatcaa acacctggag gcttgagtcc ccacttgtga ccgccagact taaagatgat 300
```

<210> 120

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 604856H1

<400> 120

```
gcaggagctg gagaagtggc tgaagaaaga gccagaggcc tttgactggg ccccagtggg 60
gacctatgtg tgtgatcttg aagggaacag agtcaagggt ccagagaagg aggagaagtt 120
gagacaggcg gtcaagcagg tgctgaagtg tgatgtgact cagagccagc cactgggggc 180
cgtcccccta cccccggctg actgcgtgct cagcacactg tgtctggatg ccgcctg 237
```

<210> 121

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1448718T6

<220>

<221> unsure

<222> 107, 228, 344, 365, 390, 432, 438, 447, 449, 471, 475, 508

<223> a, t, c, g, or other

<400> 121

```
taacaacata tccagtgtac attttaacag gtggcaacat caccacaggt agctttgatt 60
atgtaatcaa cacttttaac tttccctaca catgtacatc aaatgtnaat ggtggaatat 120
acaagttaac cgtcctcctt caaactagct gagaaactac tctctcttat ttcattttgc 180
attttctagg cagtattttt ccatgctctt taaaaacaga cgcagganct ttggaagagc 240
agaaatgcaa ttactttacat acaatatgat gagaagtgtt tcatgatata caaattgaca 300
taggacaagt tattaacata gtacaagttt ttactgtgta gaanaataa acttacagt 360
```

aaatanataaa cagcttttcta tatccaagtn atgtatggag tataaaagag tagttactat 420  
atatatatac cntatgcnta tatatanana tgtgcatgtt ctagagtata ntatnctata 480  
tacttaaata ttcacgtgac agaacatnat ttcactg 517

<210> 122  
<211> 243  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2517268T6

<220>  
<221> unsure  
<222> 53, 86, 89, 95, 98-100, 106, 109, 111-113, 117, 120, 128, 140, 160,  
177  
<223> a, t, c, g, or other

<400> 122  
caaggaacca gcttagtcaa ggaggtacag cctcagcagc aggtcaggat gtngtcctcc 60  
tcctctgcct tggccccggg ggaggnccang cgttntgnnn aaatgnctna nnngatnacn 120  
gggaccanac aatcagagtn gggaccatcg tgaatccagn cccattgttg tgaatgnacc 180  
agcaggacac ctgggcccca tgccacgggt ccttgctgta gtctttttgc aaacccctgg 240  
tga 243

<210> 123  
<211> 339  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 167134H1

<400> 123  
gcaaaaagcc aaaagaaaca tttgtttcaa tattgactca gaacctggga aaaatcctca 60  
acctggtttc tgaccagaa tcaggaattg tagtcaacgg tcagcttggt ggtgccaaga 120  
agcccaacaa tggaaaacta agcacctatt ttggaaaact gggattttat ttccaaagt 180  
aagacataaa aatagaaatc agcactgaga ccatcacct gagccatggt tctagcacat 240  
tctccttgtc ctggctccgac acggctcaag tcacgaatca gaggggtgcag atctcagtga 300  
agaaagaaaa agtggttaact atcacctgg ataaagaga 339

<210> 124  
<211> 244  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2843638H1

<220>  
<221> unsure  
<222> 44, 209  
<223> a, t, c, g, or other

<400> 124  
gaagaacagc tgggtatacc attatttcaa gtaataaatc tgantttctat tagtttaaaa 60  
attgtaaaaat tcaagttaaa tgacgtgtat gatataaag ctgaacacat tttctatagc 120  
ccttaattta gttgtgttaa tttttcaagg tgatgtatca acagcttttt ttatttgcac 180  
tgttttttca atgtgtttac atgtatgant tgagcttttt gccacagat tcttgatttg 240  
tagt 244

<210> 125  
<211> 265  
<212> DNA



<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1813269H1

<220>

<221> unsure

<222> 6

<223> a, t, c, g, or other

<400> 125

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gaagaaaggt gatgtcaagc ccttggtctga gcaaattgct atcactgctg ggtgcaaaac 120
caccacctct gctgtcatgg ttactgcct ggcacagaag acggaagagg agctcttgga 180
gacgacattg aaaatgaaat tcttatctct ggacttacag ggagaccca gagagagtca 240
accccttctg ggcattgtgat tgatg                                     265

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<210> 126

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1861971T6

<220>

<221> unsure

<222> 49, 63, 65, 91, 193, 409, 462

<223> a, t, c, g, or other

<400> 126

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ccnncceaag gctgtgtcct gctaggattc nccctcctcc tgtttcctct ccttctcgtg 120
gtgcttctcc agtgggtcac acttatacct tttccaatcg gtgtacacga catctgactt 180
gggaatgcgc aanagtcgag agcttcgtag aactctccca gttgctcctt ggtcgtctct 240
ggcttgtcag catagacaga cagccccag ttcttctcat cgttcacgtc aaaagcaagc 300
atgtaggtct tgggtgtcct gaggatcagc aagtgcgca aatgctcttg gcctcccacg 360
tatctggaga tgggtccatt ttcccgtgg acattcaggt aggtggtgnt atagatgact 420
ggtcctgtcg ggtctggtac tctctgagaa agatcgtgtc cntctgtctt gttgggggtg 480
a                                                                 481

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<210> 127

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2005973R6

<220>

<221> unsure

<222> 69, 88, 90-91, 265

<223> a, t, c, g, or other

<400> 127

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ccgaagcgct gcgctgccag gaggagaact acctgccgtc gccctgccag tccggccaga 60
aggcgtgcng gagcgggggc cgctgcgng ncttgggcct ctgctgcag ccggacggct 120
gccacgccga cctgcctgc gacgcggaag ccacctctc ccagcgtga aacttgatgg 180
ctccgaacac cctcgaagcg cgccactcgc ttccccata gccaccccag aaatggtgaa 240
aataaaataa agcaggtttt tctctctt

```

<210> 128

<211> 327

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2515729H1

<400> 128  
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cagaaaggaa atgatgacca ctggatcgtc gacacagact acgacacgta tgccgtgcag 180  
tactcctgcc gcctcctgaa cctcgatggc acctgtgctg acagtactcc ttcgtgtttt 240  
cccgggaccc caacggcctg cccccagaag cgcagaagat tgtaaggcag cggcaggagg 300  
agtgtgcctg gccaggcagt acaggat 327

<210> 129  
<211> 317  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2132356T7

<400> 129  
aagcccagcc ctgcagggag ggtcgctaag gtgccagct cttctggggg gcttccttgt 60  
ctctgatgtg ccatggatc cagtcgaggt agcggctgac tttggtgtaa acgccgtagt 120  
tgtgaaggag cccacagccc tcaccccagc tcaccaggcc caccaggaac caggtgccgt 180  
ggaaggaggc gaccatgggc cccccactgt cgccctcgca ggcattcctgc cggccccga 240  
ggatgccgc acacagcatg ttctcagaca ccatgttgct catgacctgc ctgcactcat 300  
tgtgcgggac cacggga 317

<210> 130  
<211> 262  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1001726H1

<400> 130  
cgtggatgcc tttgactatg acctgcagac aggacagatc tccaaccgca gaagtgttta 60  
caagctagaa aaggaagaac aaatcccaga tggaatgtgt attgatgctg aggggaagct 120  
ctgggtggcc tgttacaatg gaggaagagt gattcgttta gatcctgtga cagggaagaa 180  
acttcaact gtgaagttgc ctgttgataa aacaacttca tgctgctttg gagggagaagaa 240  
ttactctgaa atgtatgtga cc 262

<210> 131  
<211> 248  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2631845H1

<220>  
<221> unsure  
<222> 137, 246  
<223> a, t, c, g, or other

<400> 131  
gcaccatgaa gcttctcagc ggccctggttt tctgtctcctt ggtcctgggt gtcagcagcc 60  
gaagcttctt ttcgttcctt ggcgaggctt ttgatggggc tcgggacatg tggagagcct 120  
actctgacat gagagangcc aattacatcg gctcagacaa atacttccat gctcggggga 180  
actatgatgc tgccaaaagg ggacctgggg gtgtctgggc tgcagaagcg atcagcgatg 240

ccaganag

248

&lt;210&gt; 132

&lt;211&gt; 271

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 086390H1

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 109

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 132

tatagctcca	cggccagaag	ataccagcag	ctctgcttta	ctgaaatttc	agctggagaa	60
aggtccacag	cacaatgagg	cttttcacag	gcattgtttt	ctgctcctng	gtcatgggag	120
tcaccagtga	aagctggcgt	tcgtttttca	aggaggctct	ccaaggggtt	ggggacatgg	180
gcagagccta	ttgggacata	atgatatcca	atcaccaaaa	ttcaaacaga	tatctctatg	240
ctcggggaaa	ctatgatgct	gcccaaagag	g			271

&lt;210&gt; 133

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1287840H1

&lt;400&gt; 133

ctaagtaaga	aacacaatgc	caacagctgg	ccagtaatta	gtgttgtgca	cttcatgtca	60
ttaatcaatt	tctcaatagt	tcttaaaatt	agtgagatta	aaaatctaaa	aattttgcat	120
ttcatgctat	cagaaacagt	attttcttcc	caaatcaaaa	taaaagaaat	atgatcagag	180
cttgaacaca	ggcttatttt	taaaataaaa	atatttttaa	catgggtttc	cttattgaaa	240
aatcagtgtg	ttagtcataa	aa				262

&lt;210&gt; 134

&lt;211&gt; 342

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2516905H1

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 338

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 134

ctcagcgtgc	tgcacctcaa	agccgtagtg	tacgtgagcc	tggacaacgc	agtgctgggg	60
gatgacaagt	ttcatgccaa	gaccagcccc	cttctgacaa	gtctcattga	gagtgtcctg	120
aagcaggttg	attctcccaa	ccacagtggg	cagactctct	atgaacaggt	ggtgttcacc	180
aatcccagct	gggatgctga	ggtgatccgg	cccctaccca	tggacagcag	tgcctattcc	240
ttcacggcct	ttgtgggagt	ccctgccgtc	gagttctcct	ttatggagga	cgaccaggcc	300
taccatttcc	tgcacacaaa	ggaggacact	tatgagancc	tg		342

&lt;210&gt; 135

&lt;211&gt; 539

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc\_feature  
 <223> Incyte ID No: 606122T6

<220>  
 <221> unsure  
 <222> 393  
 <223> a, t, c, g, or other

<400> 135  
 cccccaaaaa tcaataaaaa gttcaaatag caactttttcc taatgtgttt aaaatgtaat 60  
 caccaaatac atgtgtcccc aacttctttc cagttataat tctatttgtt aaagtgaggt 120  
 atacctgaag tgaggcaata agagagttga gcttcagacc tgcctggaga gagcgtgttc 180  
 tttcttagag tctgaggaaa tggttggggg cacaaattct ctcaatcttt ttcttttccc 240  
 tcactctgag ctcttatttt ctgtctcaa ctgctttctg gtaaaccttg ttcacctggt 300  
 actttcaaga aaaaaagaag gaaatcttac gagagggagg cagattaatg aattagttag 360  
 tcactctagc agcgcagagc aagggagaat ctncgatgtg aatgaggagg atctgagtgt 420  
 ggggtgtggt gtacttgggg aaaagcagga acaatcttga acccttgaca tgggtgcattt 480  
 gagggcctc tcccagtagg gccacctgag tccctgagga gccgcaagcc tagtccagc 539

<210> 136  
 <211> 304  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3553733H1

<220>  
 <221> unsure  
 <222> 96, 234, 251, 266, 272-273, 281, 290, 298, 303  
 <223> a, t, c, g, or other

<400> 136  
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 ctccgggagg cccacagtta ctgcctccag ctgcancagt gacatcgctg acgtggaggt 120  
 ggacatgtcg ggagacttgg ggtggctgtt gaacctcttc cacaaccaga ttgagtccaa 180  
 gttccagaaa gtactggaga gcaggatttg cgaaatgac cagaaatcgg gatnctccga 240  
 tctacagcct natcgccaga gtcggnccatt annacagaga nttgcagtn ctccgacntt 300  
 gtnt 304

<210> 137  
 <211> 173  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1813381H1

<400> 137  
 cgagggcccc atcgatgccg ccttcacccg catcaactgt caggggaaga cctacctctt 60  
 caagggtagt cagtactggc gctttgagga tgggtgtcctg gaccctgatt acccccga 120  
 tatctctgac ggcttcgatg gcatcccga caacgtggat gcagccttg ccc 173

<210> 138  
 <211> 213  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1634342H1

<400> 138  
 ggcagattga tgacatactc agtgtggcct cctgtcgtcc agctgtcttg ccaccatac 60  
 ttggctcaaa atgagctaata tgcccactgc caagcacgtg gcctggaggt aactgcttat 120

agccctttgg gctcctctga tcgtgcatgg cgtgacctcg atgagcctgt cctgctggag 180  
gaaccagtag tcctggcatt ggctgaaaag tat 213

<210> 139  
<211> 249  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1418871H1

<220>  
<221> unsure  
<222> 29, 225  
<223> a, t, c, g, or other

<400> 139  
gtcgtgcaa cgtggagggg cagtgcattc gcaagggtggg ccgcatgaag ggcattgccc 60  
cgaagctgtc ggcagtgggc atccttgtag gcaccctggg agcaatagga atcttctc 120  
tcctcatttt caccactggg accatgtcaa ggaagaagga cccggatcaa ccagcagaca 180  
gctgccccct gaaggcgact gtctgaatgg ccagggcagc tctanctggg agcttggcct 240  
ctggctcca 249

<210> 140  
<211> 492  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3766382T6

<220>  
<221> unsure  
<222> 448, 454, 460, 479  
<223> a, t, c, g, or other

<400> 140  
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tatgcttcaa gaggacattt catgctgtca aaatgagact gtgaatcaga aagttctcgg 120  
ggaactgcaa ggtgctctca actaggggtc ggttccttct cagtcattgc actgactcat 180  
ctccacaggg ttctcacctg cgggaggaaa atggaggagt tgcgcctgtc agaaactgtc 240  
tgtgtgattc ggggaagaat atggagtatc ttagtagcat tccattatta cttgccccta 300  
aatacatgat gccagcccc tgcacagata acctctgtc tttatagctt gaaatatatt 360  
tgatctaaac cagcatttga catcttcaga gagagagaag tagataaaaag tctccattcc 420  
aggttggcag tacggatccc tgcagaantg gctncaaatn aaatttggcc tacagagant 480  
aagttctaca gt 492

<210> 141  
<211> 574  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 943181T6

<220>  
<221> unsure  
<222> 521, 531  
<223> a, t, c, g, or other

<400> 141  
tggaaccag acaaccccag aagccatctg tgcttgcctt tgggtgacagt gtactccaat 60  
ctcatcttc attaatgtga tggccagtca ctgagcacct ggcagatact gggtttccat 120  
cttctcacac tcagctctgc ccaagggtgg atttttgtct ctcaaggcag gagccatcgt 180

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cccaaccagg atgagccatc ctcttctggg ctaggttaaa gttgcctgtt atgccaaaga 240
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ccaacctcag taccagggca gctgggggtgc cctgtttcat cttgctgggc cggctcactt 360
tggggctggc ggatttgtca ggttggaat tgctttcttc atctccaccc aggacacgca 420
gcccacagct ctgccccgcg acgtcacaaa gaggggaatga aggttcaaca gctcaaagag 480
gttggtgtgct catgcaggga agtctctggg gacaacttca nggtcactgg ntctgtgggg 540
cagcttcagc caaagatgtc ctggagacac tgtg 574

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<210> 142  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 603761R6

<220>  
 <221> unsure  
 <222> 211, 511  
 <223> a, t, c, g, or other

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<400> 142
cgctggtagt gaacccttgg ctcaactcaag ttogaatctt tcatcaactc agatacaata 60
agtcagtggc caacctttgc aaacagatct gcagccacct ctgccttctg agacctggag 120
gatacagctg tgctgtcccc caaggctcca gctttataga ggggagcacc actgagtgtg 180
atgcagccat cgaactgcct atcaacctgc ncccccatg cagggtgcatg cacggaggaa 240
attgctatct tgatgagact gacctcccca aatgcaagtg tcctagcggc tacaccggaa 300
aatattgtga aatggcgctt tcaaaaggca tctctccagg aacaaccgca gtagctgtgc 360
tgttgacaat cctcttgatc gtcgtaattg gagctctggc aattgcagga ttcttccact 420
atagaaggac cggctccctt ttgcctgctc tgcccaagct gccaaagctta agcagtctcg 480
tcaagccctc tgaaaatggg aatgggggtga ncttcagatc aggggcagat c 531

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<210> 143  
 <211> 220  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1297562H1

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<400> 143
aaagacagtt tatcatcaac tctttcagtg gtaaactgtg gtttcccaa gctgcacagg 60
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gcagcaaagc ttatgaagga ggtacagaat attctttgcg ttgtaagaca gaatacgggt 180
ttaatctagt ctaggcacca gatTTTTTt cgccttgata

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<210> 144  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2910715H1

<220>  
 <221> unsure  
 <222> 24  
 <223> a, t, c, g, or other

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<400> 144
ctcctgcaga cccacgtcac caangagggg gageggattc tcctcaacca agccactgtc 60
aaattccacg tggactcctc ctctgagagc cccttcctca ttctgcccac gacattctac 120
catgtgctgg atgagacgag ccccttgaga gacctcacac cccaaaacct aaaggagaag 180
gagtttgagc ttgtggtcct cctcaatgcc actgtggaat ccaccagcgc tgtctgccag 240

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agccgaacat cttatatccc agaggaaatc tactgggggtt tt

282

&lt;210&gt; 145

&lt;211&gt; 550

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 196975T6

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 519, 531

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 145

tctcacagca	gaagtacaaa	tcatatgtac	aagtatttat	atcaatgaaa	atttccattg	60
gtgatttttt	ggcagaatat	tggctctgac	tctgtggaat	aaatgacgac	gtaaacgtag	120
ctgcacaggg	gtgttcctgt	ataatgcttg	aatcaattgt	gtgtgaaagc	atcatgcaaa	180
tggctaatta	aattgggtga	tgactgaaag	gttataaatc	cttcattcca	gctccacgag	240
cagatccccct	tctccaactg	tgtctccagc	ttgacagtgc	acagatttca	ccgtgccagt	300
tttcccagct	gtcatactat	tctgcatttt	catggcttca	atcacacaaa	tttcttgacc	360
ttctgtctacc	gcgtctccag	gcttgacaga	gacggccacc	accactccgg	gcatcgggga	420
acgcagaaca	ctgcttgtgt	cctcagtcac	tttttccagc	ataaatttgt	tcaattctgc	480
ggcaagtctg	ggttaagata	ttcaccttgt	acactgtanc	caagaaactg	natgcccattg	540
tttccacctg						550

&lt;210&gt; 146

&lt;211&gt; 265

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1453049H1

&lt;400&gt; 146

tgcccagcga	cggcttaagc	cagcccccca	ctggcctggc	cacactgtct	tccagtagca	60
cagatgtctg	ctctcctct	tgaacttggg	tgggaaaccc	cacccaaaag	ccccctttgt	120
tacttaggca	attccccctc	cctgactccc	gagggctagg	gctagagcag	acccgggtaa	180
gtaaaggcag	accaggggct	cctctagcct	catacccgtg	ccctcacaga	gccatgcccc	240
ggcacctctg	ccctgtgtct	ttcat				265

&lt;210&gt; 147

&lt;211&gt; 256

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1968695H1

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 132

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 147

ctacttaacc	tccgtgatgg	ggaaagcggc	cggagaaagg	gagttctggc	agcttctccg	60
agacccaac	acccactgt	tgaagggtat	tgctgactac	agacccaagg	atggagaaac	120
cattgagctg	angctgggta	gctggtagcc	cctgagctcc	ctcatcccag	cagcctcgca	180
cactccctag	gcttctaccc	tcctcctga	tgtccctgga	acaggaactc	gcctgacctt	240
gctgcaactc	ctgtgc					256

&lt;210&gt; 148

<211> 281  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 958344H1

<400> 148  
ggcgacctgt cccgatttgc actgctcatg accaactgct atgccacacc cagtagcaat 60  
gccacggacc ccctgaagta cttcatcatc caggacagat gccacacac tagagactca 120  
actatccaag tgggtggagaa tggggagtcc tcccagggcc gattttccgt ccagatgttc 180  
cggtttgctg gaaactatga cctagtctac ctgcactgtg aagtctatct ctgtgacacc 240  
atgaatgaaa agtgcaagcc tacctgtctt gggaccagat t 281

<210> 149  
<211> 218  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 254081H1

<220>  
<221> unsure  
<222> 3, 8, 11, 47, 58  
<223> a, t, c, g, or other

<400> 149  
cgnctggngg naggctctat tcttaccttc tgggaatgct aggctgntat aaaatggmca 60  
gttggtattta tgcttgctca tccttatggt tttacacgag taatgtcaag ctaccgttgg 120  
ccaagaacag tttcaaaatg ggaaacgaat gttaataatt gggttggggc caccaaataa 180  
taatggggta attaaaggaa gttactatta atccagac 218

<210> 150  
<211> 240  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1330674H1

<400> 150  
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ccacatcctg gctggcaagg gaccctgaag gccagaact tcaagaagag atgcctgcag 120  
gccaccatca ccaggacag cacctacggg gatgaagact gcctgtacct caacatttgg 180  
gtgccccagg gcagggaagca agtctcccgg gacctgcccg ttatgatctg gatctatgga 240

<210> 151  
<211> 102  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2377834H1

<220>  
<221> unsure  
<222> 54, 73, 88, 97, 101  
<223> a, t, c, g, or other

<400> 151  
tgggtggcga gaacccgcac cttgtcagca agatccagat tggcaacacc tatnaagggc 60  
gtcccattta tgnctgaag ttcagcangg ggggcantaa nc 102



<210> 152  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2075464T6

<400> 152  
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 aggtctcttc ggctgtgggc aggatctgac gggctggcaa gaggaagccg tagcgccctg 120  
 tggctctcag ttcaaaggca aatgagtact tgatgccata atcataggac cagtcaatgc 180  
 ttctctccact ggcttggtag atgacagagc agattgggtcc cactttgtac ttggtgccat 240  
 gcaggcttct cagagattgg gcagcctttt gggccacttc actcagctca tcaaagtcac 300  
 ctaacttggg acattttgtac ccatagggga acatcagcag ctgggaatag ctgtggaggg 360  
 taatgaaggg cttgactttt ccatgactct tgatgaagtc cactatggat ttcacttcaa 420  
 cttcagagtt ggcactgggt ccgtggtatg aatcagagca agggttgctg ctgggtccag 480  
 gtctctcaaaa acctgcatcc cagttccggt taggatccac accaaca 527

<210> 153  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2383235H1

<400> 153  
 cactcaccat ggagaagatc ctgatccctc tgcttgtcgc cctctctgtg gcctatgcag 60  
 ctcttgccc cggggggatc attatcaacc tggagaacgg tgagctctgc atgaatagt 120  
 cccagtgtaa gagcaattgc tgccagcatt caagtgcgct gggcctggcc cgctgcacat 180  
 ccatggccag cgagaacagc gagtgtctctg tcaagacgct ctatgggatt ta 232

<210> 154  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1285503H1

<220>  
 <221> unsure  
 <222> 155-174  
 <223> a, t, c, g, or other

<400> 154  
 gaagaagagg tgcaagatac aaggctttag agagcagcat aaatgttgac atgggacatt 60  
 tgctcatgga attggagctc gtgggacagt cacctcatgg aattggagct cgtggaacag 120  
 ttacctctgc ctcagaaaac aaggatgaat taagnnnnnn nnnnnnnnnn nnnntttggt 180  
 aaggggaatt gaggacactg atatgggtct tgataaatgg ctctctggca atag 234

<210> 155  
 <211> 446  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2383205T6

<220>  
 <221> unsure  
 <222> 156, 276, 323, 402, 412, 420

<223> a, t, c, g, or other

<400> 155

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caagtctgaa acagttccag ggacttcttt tggtagtta tttgcaatca ccgaattgat 60
ccagtcgatg taattggaga cccgcgtgaa gacggagggc ttgtggtagt agttgcagcc 120
gaggcgagac ccgaagctga cgatgccgtg cacctnccac cggccgtcag acgctgacag 180
ttcatggggc cgccagatct ccgttgacgc tggagatcac gccatcacc ccagcacaga 240
tcatactggg ttccacgctg ctgccccacc aggcanaagct ggagcagggt gatattccca 300
aacagcaacc ggccctgctg cangacatca ggaacagccc cgttggtctg cagccttccc 360
cagcccgtga cgtagcaggg gtagttgttg ggtagaatgg tnccggcaag anggaggcan 420
gccagctgga tcttgtcggg gagggg          446

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<210> 156

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2015871H1

<400> 156

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tggtgggtga gtacaacctt gctgtgaagg agggccccga gcaggtgatc cccatcaact 60
ctgaggagct gtttgtgcat ccactctgga accgctcgtg tgtggcctgt ggcaatgaca 120
tcgccctcat caagctctca cgcagcgccc agctgggaga tgccgtccag ctgcctcac 180
tccctccgcg tggtagatc cttcccaaca agacaccctg ctacatcacc ggctggggcc 240
gtctctatac caatgggcca ctcccagaca agctgcagca ggcccggctg cccg      294

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<210> 157

<211> 195

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2374046T6

<400> 157

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gatttacata ggggagttgg agatgctaac caagcatgga gttttcacat ggtctatttc 60
tgctgagttc agggacttgg agacagcctt taacttctgg caaaaagaca atttcacaaa 120
ggtgtttaa accatccttt ggtttttgat cctgagtcag agacggacat gtgcttatga 180
aagaaggtag agttt          195

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<210> 158

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1709828T6

<220>

<221> unsure

<222> 150-181

<223> a, t, c, g, or other

<400> 158

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ctaacagaac aaaaagtttt tacagtgcct tctcatacag tgtctgggat ttacagataa 60
cacaggtagt tttggtcagg ggttaatat attgttgttt taaccaccgg ggccagggtg 120
tggcgccaag gtcgtctagc tatttattn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nccttttttg ctgtcttaca aactagggaa aaggggaggt tggggagaaa ctgggaagga 240
caacaggaga agtggtggtc tcatacctta tttccccct ttgagcattt tcacttttta 300
gtgggagttc tactctcat ctttactttt tgagtctatt tgtgagatag agcgatagtg 360
atztatataa cacacgtgtg ctgaaagttt ctgatgaacc aaagtagcta caaaccttt 420
gatcatttga aaaagca          437

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<210> 159  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2061119T6

<220>  
 <221> unsure  
 <222> 143, 145, 148, 151, 194, 218, 233, 250, 257  
 <223> a, t, c, g, or other

<400> 159  
 gctggagggtg ctcatggtga caccgcacag gacttctctgc ctgctagaaa tcctctaccc 60  
 gcgtgttcct ttcccccttc tggggcaaaa gccactgcgg gccatgtacc caaataaacc 120  
 tcttaatgcg tttgttaaaa ttngnttnga natctgagtt tccctctgaa gaaatggaaa 180  
 aagtgttggg tgtncatcc cgctccccc tcccogantg gccattaag tcnctactaa 240  
 gagggcgtgn ctgctgnctc cggac 265

<210> 160  
 <211> 295  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3665105H1

<220>  
 <221> unsure  
 <222> 26, 45, 50, 117, 131, 137, 148, 154, 169, 205  
 <223> a, t, c, g, or other

<400> 160  
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 agagggtgctg gtgaaggcct gccaggcgg gtaccatgtg taccggttg gaaggcnctc 120  
 cctggtgtaa nctgatntac tgcacagncc catncacctg tggaggacna gtgtgagaag 180  
 gcctgccgcc ccgaggagga gtgcntgccc tcaacagcac ctggggctgt ttctgcagac 240  
 aggacctcaa tagttctgat gtccacagtt tgcagctcag ctagactgtg ggccc 295

<210> 161  
 <211> 438  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2068983F6

<220>  
 <221> unsure  
 <222> 241, 246, 249, 252, 285, 347, 358, 407  
 <223> a, t, c, g, or other

<400> 161  
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 ttcaggcatt cacagataaa ctcatctctt gtacttctag ggtagcatct ttatgtatct 120  
 attatgtacc tcttatctat tgtgttatca tctctgttat agaagagcct tctgtagacc 180  
 atatagaaaa agattataga ggaggagaat ctactgctgg caattgggaa ccgcaaggta 240  
 nactanatna tnatcaaca actaatggcc atctaattgct atgcnggata tgaacttttg 300  
 gggcctcagg aaagaaaaac caggaactag tttcaataat gaggtgncat ggttcccngt 360  
 ggcagattta gagcgcttat cgtttggcag gacacagaga ggtaggngaa caattccagg 420  
 aaagaagcag cttagaga 438

<210> 162

<211> 248  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2242648H1

<400> 162  
 cattggaagg agggcagaaa tgaatgaact tatggagcag acctcggaga tcatcacgtt 60  
 tgccgagtca ggaacagcca ggaagacgct gcacttcgag atttccaagg aaggcagtga 120  
 cctgtcagtg gtggagcgtg cagaagtcctg gctcttctta aaagtcccca aggccaacag 180  
 gaccaggacc aaagtcacca tccgcctctt ccagcagcag aagcaccgcg aggccagctt 240  
 ggacacag 248

<210> 163  
 <211> 379  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 885032T6

<220>  
 <221> unsure  
 <222> 360, 364  
 <223> a, t, c, g, or other

<400> 163  
 accacgtttt taacaagggt aaagagattg caagacgttt tcttccacag tgtcgtgtgt 60  
 acaaaaatta tactcagtc catcttcacc actttgcaact gtgatttggg aagccccag 120  
 tttgggtca gatagattta tcccacgttt gttccagagg aatttaactt tctgtatttt 180  
 tccaacatta aaatccacat caatagcaca cgtgtgactt gcatctgggt tgagggatcc 240  
 tttgaaaatc tcatattgtt ttgagttttc attacttcca taaaaagcaa tcttgatgta 300  
 cccattcact ttctcttttc cagaaagtgt gactgatata ttatatcttc aactagtaan 360  
 gttneccact cctcctgtg 379

<210> 164  
 <211> 496  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2383830T6

<220>  
 <221> unsure  
 <222> 211, 218, 220, 241, 277  
 <223> a, t, c, g, or other

<400> 164  
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 tgtccagggt cttgtgtgcc ttgttatatg gagcttttga aaagcagatg gcagcgttgc 120  
 ggtcgcagtt gcaaatgaag gcctcacact ctttggtttt gctgctacag gtgattgccg 180  
 agccagagca cgagtatgaa taggtgtggg ngtacggntn gtccagcaga aatttacagc 240  
 ngtcagctt cttggcctgg tcatagcagt tgtcatntgt ctggcagcac ttgtccagtt 300  
 catccacggg ggtgcctgag cccccaagc cacagtagca gccgtagtgt ttgtattcca 360  
 agaaggggtc actccccggg atcacgcact tgatcatttt gcggaactgc cacacggccc 420  
 gagggctgat gccgctgtcg gcggcggcca ctgtgaccag cacagctagc acaaggagtt 480  
 tcatcttgcc tcgagc 496

<210> 165  
 <211> 285  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2085191H1

<400> 165  
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 gatgatgaca agatcggtgg gggctacaac tgtgaggaga attctgtccc ctaccagggtg 120  
 tccctgaatt ctggctacca cttctgtggt ggctccctca tcaacgaaca gtgggtggta 180  
 tcagcaggcc actgctacaa gtcccgcatc caggtgagac tgggagagca caacatcgaa 240  
 gtcttgagg ggaatgagca gttcatcaat gcagccaaga tcatc 285

<210> 166  
 <211> 292  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2792982H1

<220>  
 <221> unsure  
 <222> 15, 100-101, 110, 159, 167, 198, 212, 218, 222, 229, 258, 269, 271-  
 272, 274, 288  
 <223> a, t, c, g, or other

<400> 166  
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 gttgggggct acacctgtga gaattcttct cccctaccan ntgtccctgn attctggctc 120  
 ccacttctgc ggtggctccc tcatcagcga acagtggng gtatcancag ctactgcta 180  
 caagaccgc atccaggnga gactgggaga gnacaacntc anagtcctng aggggaatga 240  
 gcagttcatc aatgcggnca agatcatcng nnancctaaa tacaacangg ag 292

<210> 167  
 <211> 103  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 243123H1

<220>  
 <221> unsure  
 <222> 57, 62, 67, 71, 89, 91  
 <223> a, t, c, g, or other

<400> 167  
 gtctgttcca aggggtttcc ctttccactc atcggagatt cagagggatg agctggnacc 60  
 anctggnaca ngggtgtccc gtgaggctnt ntccgggtctg ctg 103

<210> 168  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 382416R6

<400> 168  
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 ttccacaaa tccagatctt ccaggaaaat ccacgtcttc caggaaatcc atgtcttcca 180  
 ataatttcaa ggtcttccat caaatacaga tcttccagct aatccatgtc ttccagaaaa 240  
 atctgtgtct tccacaaaat ccaagtcttc cagtaaatct agttcttcca gaaaaatcta 300  
 gatcttccag tcaatcagtg tcttccagaa agaaatccag gtcttccagt caatcagtgt 360

cttccagaaa gaaatccagg cttccagtc agtcagtgtc ttccagaaaa atctacgtct 420  
 tccaccaa at ccaggtcttc cagtcaatcc acatcttccg ggaaaaatcc aggtcttcca 480  
 gccaatatat g 491

<210> 169  
 <211> 275  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1852659H1

<400> 169  
 gttttacaga tgaaggaatg ttttatagta atttaatttg ctctgttagc tgcattatatt 60  
 cttgattaga ggtttgggca tataaccaga tttaaagtga ggaactttct gttgtttttg 120  
 tagcaccgct cagctgtctt gtaaaacagt gaacacacgc tttctgggtc tagtaatcct 180  
 ggggtgtttat cacgttcaga gaaactcaag ctattgcatg attagccccc tatctggcaa 240  
 ggaaacccca tacagaagaa acaacaaaacc tgcgc 275

<210> 170  
 <211> 322  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3220181H1

<220>  
 <221> unsure  
 <222> 208  
 <223> a, t, c, g, or other

<400> 170  
 ctgaacacat tgaagatgtc aaaatggcat ttgacagaga tggtgaaaag gccgatatat 60  
 ctgccaatgt ctatccagac ataaacatca tcaactggagc ccttaaactg tatttcagag 120  
 acttaccat ccctgtcatc acatatgata cctattccaa atttatagat gcagcaaaaa 180  
 tctccaatgc agatgagagg ctggaagngt ccatgaagtg ctgatgctgc tgcctcctgc 240  
 ccactatgaa accctccggt acctaataatg ccacctcaaa aagggttacta tgaatgaaaa 300  
 agacaatttc atgaatgcag aa 322

<210> 171  
 <211> 211  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1726307H1

<400> 171  
 attttttaac aattgtataa gtgccaagt aattcactac agcctaaagc cttgcctttg 60  
 taatttgact tctgacatgt tggcaatcaa agcatgcact tgtaacaatg aaaaagaaaa 120  
 agcattttat attactactc aataaaatgt gcatgaactt acagaattct catccttcca 180  
 ctgagtccgc tgaagggatt tatgtgcaca a 211

<210> 172  
 <211> 324  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1904244T6

<220>

<221> unsure  
 <222> 3-4, 33, 39, 47, 51, 56, 131, 161, 274, 298  
 <223> a, t, c, g, or other

<400> 172  
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 ttcttttgaca caaaactcaa accgagtcaa cccaaagttc caagttcttt gctttctctt 120  
 ctgtgtgtag ngttgggttg tcccaaaagt cagtttgcaa nttgaaactt catgaaatta 180  
 ctcgtagcag aaataaagta cattgtacaa atcacgcagg tctgcgatgt ggagtataaa 240  
 aatgggtattt acagccagta aacatggacc aganagacac gtacaactgc acaccggnac 300  
 acactcccaa gcaggccctc gggg 324

<210> 173  
 <211> 296  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2039955H1

<220>  
 <221> unsure  
 <222> 2, 58, 62, 224, 247, 259  
 <223> a, t, c, g, or other

<400> 173  
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 gnttgccagc cccaggaagc tccagggctg agtggtcagg agccagtttc tccagcccct 120  
 cctccccaca acccctagtg gggaggggca gctgtccatt tgcccaaagt attaatgcaa 180  
 ctgaagctgt gatatttcca acgactgtag gaggaaaaat taangggaga gaggaaaaca 240  
 aaaccancca acccctaana tcattttctt attgtacata acgacctcat tctcct 296

<210> 174  
 <211> 97  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2675641H1

<220>  
 <221> unsure  
 <222> 95  
 <223> a, t, c, g, or other

<400> 174  
 gaattctaaa aaatattttt ttctatgaaa ttactagtgc ccagctgtag aatctacctt 60  
 aggtagatga tccctagaca tacgttggtt ttgangg 97

<210> 175  
 <211> 134  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1412749H1

<400> 175  
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 tgcagggtgt cagc 134

<210> 176  
 <211> 255

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1963854H1

<220>  
 <221> unsure  
 <222> 6  
 <223> a, t, c, g, or other

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 cctttccttc tcacttttgc atgtttttac tgatcattcg atatgctaac cgttctcagc 180  
 cctgagcctt ggagaggagg gctgtaacgc cttcagtcag tctctgggga tgaaactctt 240  
 aaatgctttg tatat 255

<210> 177  
 <211> 259  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2949085H1

<220>  
 <221> unsure  
 <222> 60-75  
 <223> a, t, c, g, or other

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 atcaatgatc accgggctgt gggcatggct atctacaatg tggcagtcct gtgcctcatc 180  
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 cttgccatag ttttctcct 259

<210> 178  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2963196H1

<220>  
 <221> unsure  
 <222> 162  
 <223> a, t, c, g, or other

<400> 178  
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 cccctccact cccgacccgg tggatttctc cctggctggg gnetcaatgc tggcttcaag 180  
 gagacccggg ccatgagcgg gcagagatga tggagctcaa tgaccgtttg caagctacat 240  
 cgagaagtgc gttctgggaa cacaaaacaa ggcgtggctg ctga 284

<210> 179  
 <211> 279  
 <212> DNA  
 <213> Homo sapiens

<220>



&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1505977H1

&lt;400&gt; 179

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acgaaaattt ggaatgggat ggttgagaa cttgtatatg ggaaagctga tattgcaatt 120
gctccattaa ctattaccct tgtgagagaa gaggtgattg acttctcaaa gcccttcatg 180
agcctcggga tatctatcat gatcaagaag cctcagaagt ccaaaccagg agtggtttcc 240
tttcttgatc ctttagccta tgagatctgg atgtgcatt 279

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&lt;210&gt; 180

&lt;211&gt; 205

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1674985H1

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 76

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 180

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tctcttttca tctttgatgt cagtt 205

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&lt;210&gt; 181

&lt;211&gt; 464

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2109054R6

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 439

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 181

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ctagagcatg aatacatcca caacttcaag gtgctgcaac agctttcaag aagatgggtg 60
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ttattcagtg gtttaagaaa ttctttgacg caaactatga tggaaaggat tacaaccctc 180
tgctggcgcg gcagggccag gacgtagcgc cacctcctaa ccagttcca cagaggacgt 240
ccccacagg cccaaaaaac atgcagacct ctggccggct gagcaatgtg gccccccct 300
gcatttctccg gaagaatcct ccatcagccc gaaatggcgg ccattgagact gatgccccaa 360
ttcttgaact caaccaacag tgggtggactt gaagctgaca gtggatgggc tggagaagga 420
cgtgacttct acttcagcna acttcgtgac atcgagctca tctg 464

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&lt;210&gt; 182

&lt;211&gt; 238

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3317039H1

&lt;400&gt; 182

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tgccgtctgc accagtatga tgggtccata gttgtcatcc agaaccagc ccggcagacc 60
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ccacgccggg tgccgatccg gctctcagat gccgcctgg aggacgaggg gggctatttc 180

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tgccagctct acacagaaga caccaccac cagattgccg cgctcacggt actagtgg 238

<210> 183  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2838551T6

<400> 183  
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 ggtgaggtca gtggcaggag ccaccagaa gcccgcaga tgacggagct gagaacaggg 180  
 acttcacctc cacgtgttgc catttcctca ctggaaagtc cttgggaggt ggctgggctc 240  
 agcctgagct cagggtctct cgggtgggggt tggggcaggg gcagggcggg cacttgcagg 300  
 tggcacaggc ttcataaagg caggacacgg gcttcatcaa ggcaggagcc acagcgccc 360  
 agccctggca ggggaggtaa ggcccaggat ggggcagggc cgtgtgctcc tggaacggac 420  
 atccttctct gccagagacc tgctcccaaa gccctgtccc tccaatccc caggcagccc 480  
 actctgccct ccatagatga atctaattccc atatattaca ataaactgca tttgcctctc 540  
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<210> 184  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1477568T6

<220>  
 <221> unsure  
 <222> 255-327  
 <223> a, t, c, g, or other

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 tggataatga aggatactg ggggtgcaga agtgggggtgg gaatccctgg ggcacagtc 180  
 cacaggaggt gggggccagc gatggcttca ggggtgatat ttccaatata tatcagccct 240  
 gggcactctc gccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnncca gatctattga gttagaagct gtattaacaa 360  
 gatccccagt gatttttatg c 381

<210> 185  
 <211> 479  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2963871F6

<220>  
 <221> unsure  
 <222> 368, 400, 423, 472  
 <223> a, t, c, g, or other

<400> 185  
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 cagctcttaa taagaagggg cttataaatg cgtggacagc tgcagaaaat gacagatggc 180  
 cgtggattca gataaatttg caaaggaaaa tgagagttac tgggtgtgatt acccaaggag 240  
 ccaagaggat tgggaagcca gagtatataa aatcctacaa aattgcctac agtaatgatg 300  
 gaaagacttg ggcaatgtac aaagtgaag gcaccaatga agacatggtg tttcgtggaa 360

acattganaa caacactcca tatgctaact ctttcacacn ccccataaaa agctcagtat 420  
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<210> 186  
 <211> 88  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1740547H1

<400> 186  
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 tatgttctaa attgaaaaca attttttt 88

<210> 187  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2292011H1

<400> 187  
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 aggcggaccc agagagactt gcagtacgtg gagaagatgg agaaccaaat gaaaggactg 180  
 gagtccaagt tcaaacaggt ggaggagagt cataagcaac acctggccag 230

<210> 188  
 <211> 251  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1349484H1

<220>  
 <221> unsure  
 <222> 167  
 <223> a, t, c, g, or other

<400> 188  
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 gaagcagggg ccctcctggc agctcctctg agtggggaga ggttggncag tgagtggagg 180  
 acccctaag cagggactag aagcctcagt ttccccattt tacccttcca cacaatagcc 240  
 tctgtaggtt a 251

<210> 189  
 <211> 200  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1674253H1

<400> 189  
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 aagaacggtt tcttgcttgc ttggtcctgg aactccctt ggctgcccc ggctccttg 120  
 gccatgggt gctgggggag gtggatgtca gatctggtag gttgcagcag agaaaataaa 180  
 tgtgccttga gagaccactc 200

<210> 190  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1932189H1

<220>  
 <221> unsure  
 <222> 59, 76, 249  
 <223> a, t, c, g, or other

<400> 190  
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 agaaaaccga cgaaggccac cctttcaagg cctacttgga gcttgagatc accctttctc 180  
 aggagcagat tcagaagtac acggatgcct gcagttctac gtgaacagca cattaaggaa 240  
 tgaggaggnc ttccttgt 258

<210> 191  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1403041T6

<220>  
 <221> unsure  
 <222> 549  
 <223> a, t, c, g, or other

<400> 191  
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 ttgttcattt caggggtctca atgtagctga agaactgtgc ccactgatca gtattacgta 120  
 ttgc aaatgc aggaggt aag gctaaaatag gacttatgcc gttcagaaga ttgaattgaa 180  
 accttaaaaa ctatcataat agtaggaatg catgttaaga tttgataact ttcttttagct 240  
 agagttttca acccacagtt aggagcaaag ttgtaaagtg agtaggtgtg aagaagggac 300  
 actcttttga gaaaagaaat tagctacttc taaaatgatt caattatttt ccctattttc 360  
 attttccata atatttctct ctgttttata cctctaacta ccctcctgat ttctctgagg 420  
 aaaaaaaga atataagagc aggatcaaaa aaaagcaaga gcttatcact ttagcctttt 480  
 agaaatactg ttttgtagca gataacctca aatttaaaac ttccgagggt tttcatcacc 540  
 cccttggang aaatatttgg g 561

<210> 192  
 <211> 362  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1486358T6

<220>  
 <221> unsure  
 <222> 3, 5, 10-11, 13, 162-164, 171, 173  
 <223> a, t, c, g, or other

<400> 192  
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 agctaagggtc ggcagggggtc gaggggagtg aggcaggag gatgcatggg gcctgtggga 120  
 accagagaga agctgggggtc agaggttagga gctgacgctg tnnnggggtg ngngtgaaaag 180  
 gtgaggcaag gtcaaagggtg aactgcagct cgaggaggag ggtccaatat aaaccaggac 240  
 ttgcagggtgt agaagtaaaa tgggactcat agagggtgaa agagaagttg gagtcaggag 300

ggattcagag atcaaagaga agttgggggtc agaggtagga gctggggctc aggtgggggg 360  
 tt 362

<210> 193  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1439065F6

<220>  
 <221> unsure  
 <222> 161, 205  
 <223> a, t, c, g, or other

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 tccaagtctc taagcaatac attttggggg tccctcagc nccccacccc agatcttagc 180  
 tggcaggtct ggggtgcccct tttctcccc tgggaagggc tggaatagga tagaaagctg 240  
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 tctaggacct ggggaatgggg tggagaggac atcctcttca cccagaatt gcgctgcttc 360  
 agccccatct ccagcctgat cctctgaatc ttccttccct ccctttctga tatagtgact 420  
 ggggcaaaag gagccattgt gacc 444

<210> 194  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 530629R6

<220>  
 <221> unsure  
 <222> 90, 187, 299, 302, 323, 338, 340, 343  
 <223> a, t, c, g, or other

<400> 194  
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 gtgctctgtc cttagagaag gcgcgggtgn cgggttcctt tcccctaggg cacattacta 120  
 aggggggtcag gcaactgcctg ctggttccag caccatctgg gactgggtac agtacctcca 180  
 gccccanggc cctgacctgc gcacctagct tgacatctca cgcacctccc agagctggcg 240  
 ccactgagta atccggacct caacacctct tttcctttga gcccaaggca gagctgganc 300  
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 ccaagtcccc tctgagattc gatcagggga ctggatagat 400

<210> 195  
 <211> 121  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1672676H1

<400> 195  
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 caacccccac ccccccataat ctgactcaca acttcacat cagttggggg cataaccacta 120  
 g 121

<210> 196  
 <211> 233  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1989129H1

<220>

<221> unsure

<222> 66, 83, 232

<223> a, t, c, g, or other

<400> 196

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gcattnngcaa	atccacactg	atnaacacac	tcttcaacac	gaccttcgag	actgaggaag	120
ccagtcacca	tgaggcatgc	gtgcgcctgc	ggccccagac	ctatgacctc	caggagagca	180
acgtgcagct	caagctgacc	attgtggatg	ccgtgggctt	tggggatcag	ana	233

<210> 197

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1486348T6

<220>

<221> unsure

<222> 270-285, 483, 504

<223> a, t, c, g, or other

<400> 197

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aattaatatg	cactatactc	tcacctccac	aatcattcca	tagcaaagtgt	gtgtcttctg	120
gatgatgtgg	aagagagagc	ccagcaagca	ctatgggcct	ggctttgccca	aaatctaaaa	180
caggccaaag	ggatattaaa	tttcttattt	ggtgtggggt	gggctggggc	agtaatttgt	240
tctcacttac	agtggctctgt	cgtatgtttt	nnnnnnnnnn	nnnnnctgca	cctcaccatg	300
ttattcccag	gaatgtaatg	gcctcagata	tcccatcatt	ggaaacactt	catagtagag	360
gttaccattt	tgttgtttat	ttagcacctg	aatttaggca	agagaaacat	ttctacctga	420
agactccatg	cagtcaaatt	tcctgcctt	tatatgggaa	tttctacaga	gacccatggg	480
ctncccaagt	gaggaagcca	gggnactcag	ccctcaccct	ccagctggcc	ttgggacagt	540
aacttgctgt	attcctcttt	ct				562

<210> 198

<211> 223

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1397294H1

<400> 198

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gggtgggttc	tgaccacccc	tcccaccctc	cttctctcgt	gtggacgata	gagccacatc	180
cagcaccacg	gacagctccc	gggcgaccaa	aaagaagaat	gta		223

<210> 199

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2844322T6

<220>  
 <221> unsure  
 <222> 55, 419, 578  
 <223> a, t, c, g, or other

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 atccaatgat tactagcact agaagccaac ggcaaaggac ccgcgcgcgt tgctcgtggt 180  
 taatccaggt taagctatac acgtttaaat acatgtcgga gggtacatgg tctcatgcag 240  
 tccctgtgat ggaatgactc ttgctcagtg acctcctgca gcgaggctgc tccaaagggc 300  
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 cattatcctc cttcatggca aagagaatgt ttgtcagcat ctgcaggctc tccactgang 420  
 gaggagaggg tttcttctcg taaggaaatga ctgtgttcag atactgtttg tcagttcctg 480  
 aggagccaaa ggtctggcgg atgcactctg cagaatgttg gagatgcttc catgctgaag 540  
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<210> 200  
 <211> 365  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1481440T6

<220>  
 <221> unsure  
 <222> 8, 29, 32, 35, 38, 67, 69, 79, 88, 99, 101, 112, 114, 126, 176, 230, 276, 308, 324  
 <223> a, t, c, g, or other

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 cccaangggc ccaaagggga aaagttaaag cccaaattaa aaattaaacc aaccngggaa 180  
 ccaagacca aggaagcttc ccccccttc caaggaacca aggattggan ggggtaaaaa 240  
 aggaagggtt agaagaaggg aagccccgt aattgnaggg gccgttgggg ggtttcctgg 300  
 ccagggangg gggcaagctt gggntaaaag taatggggga aggttcaatg gccccccaa 360  
 gggac 365

<210> 201  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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<220>  
 <221> unsure  
 <222> 9, 22, 101, 111, 182, 186, 195, 214, 227, 246-247, 257, 284, 298, 305  
 <223> a, t, c, g, or other

<400> 201  
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 catttgagc aattggcagc accactgtag tagaggccag ngggcggcga nttcggggtc 120  
 gacttaccc ctggggcatc gtggaagtgg aaaaccagg gcactgcgac tttgtgaagc 180  
 tnaggmcaat tctgntacgt acccacatgc aggnctgaa ggatgtnaca cgggcgacac 240  
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<210> 202  
 <211> 377  
 <212> DNA  
 <213> Homo sapiens

<220>  
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<220>  
 <221> unsure  
 <222> 6, 32, 151-152, 155, 208, 218, 258, 277, 333, 349  
 <223> a, t, c, g, or other

<400> 202  
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 aaaaagaggg agagagataa taaactatat tttggtgggg atggtgatta aacacctctt 120  
 ttgggtatgc cttttaaaaa tgcttataga nnaanaaaat tttaaaaaga tagctaatagc 180  
 tagtatatac tgcaatgtta ggggaatnaa catgtttnc tactgcattg gggacttcta 240  
 gatagggttaa tgaaaggnc tttattctgt tactggncat gaaaactttg tctaatttct 300  
 tactctattg tacgtttaca gtcgcagcac tanaaatgga tgacatcana catttttaac 360  
 aaaatgatgt acaaact 377

<210> 203  
 <211> 276  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1485846H1

<400> 203  
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 tttgtggggg ctgcagctac actggtttcc ctgctcacct tcatgattgc tgccacttac 180  
 aactttgccg tccttaaact catgggccga ggcaccaagt tctgatcccc cgtagaaatc 240  
 cccctttctc taatagcgag gctctaacca cacagc 276

<210> 204  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2153242H1

<400> 204  
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 aagctcttac ctatagtaca agtacatgat gctactgaat atttttccac ttgggtaaaa 120  
 aaaaaactgt gagctggttg ttgcattaaa acacacatac aaacaaaatc aaaaacactg 180  
 cggactttca ctcaagctgg tctttcttcc ccagtgtgta gcaatcctgc ctactaaca 240  
 caccaacaac aaaacactcc a 261

<210> 205  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2157981H1

<220>  
 <221> unsure  
 <222> 228  
 <223> a, t, c, g, or other

<400> 205  
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agatattgtc tatcacccca ggggccatct gaagggtctct ttgcatttct ccatgcaaag 180  
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aagt 244

<210> 206  
<211> 252  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3244361H1

<400> 206  
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ggaggcctac atctaggggtg ggggccactc accgaccgga cactctcacc ccccgacctg 180  
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gcgagtcacg ac 252

<210> 207  
<211> 577  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1986737T6

<400> 207  
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agatctttta aaaatatattt gacttggtcc cccttcacac tcattttttaa attgttttga 120  
tgaggctctc aatgtctata atgtcaatgc aagaaaaaat acagagagaa gtatgtaaat 180  
aacacaatag caattaattg gggaaaaaca aaatatcatg gccttcacaa gaagcaacaa 240  
cacagctttg taacagggtt atacagggtt caaccgagag gcaaagatgc actaaactgc 300  
ctacacatac ccagggtatgt aacaagcaag gaggccacct caagttcagt ttccttcagt 360  
catgacacat gctttttttc tctcatgga caattattga agtggttcgt tacatgtctt 420  
aggcagcctg aagaaggtag gaaagcctta gtagaggga atcaaacc aa atgagattaa 480  
gtcaaaaagaa cagataacta tcgtctgctt atctacttaa aggtgtgtgg catttaccac 540  
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<210> 208  
<211> 615  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2506867T6

<400> 208  
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&lt;211&gt; 2043

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&lt;213&gt; Homo sapiens

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 <223> a, t, c, g, or other

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 718807.con

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 <213> Homo sapiens

<220>  
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&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 807530CB1

&lt;400&gt; 262

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&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 963536.com

&lt;400&gt; 263

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&lt;210&gt; 277

&lt;211&gt; 2909

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 989613CB1

&lt;400&gt; 277

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&lt;210&gt; 278

&lt;211&gt; 2860

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1804662.con

&lt;400&gt; 278

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&lt;211&gt; 1116

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2921194.con

&lt;400&gt; 279

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&lt;211&gt; 6483

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 395368.con

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&lt;223&gt; Incyte ID No: 1751028CB1

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&lt;223&gt; Incyte ID No: 1501077CB1

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&lt;211&gt; 1978

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&lt;220&gt;

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&lt;213&gt; Homo sapiens

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&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: g4884115

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&lt;223&gt; Incyte ID No: 1504934.com

&lt;400&gt; 295

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&lt;210&gt; 300

&lt;211&gt; 2245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1344654.con



&lt;400&gt; 300

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&lt;210&gt; 301

&lt;211&gt; 1757

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2513979.con

&lt;400&gt; 301

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 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 2369312.con

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 <212> DNA  
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<220>  
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&lt;210&gt; 305

&lt;211&gt; 1437

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 139825CB1

&lt;400&gt; 305

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&lt;211&gt; 1295

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 138274CB1

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4285165CB1

&lt;400&gt; 307

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 272669CB1

&lt;400&gt; 311

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&lt;211&gt; 2379

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 271684CB1

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&lt;213&gt; Homo sapiens

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&lt;400&gt; 325

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&lt;211&gt; 1346

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2614869CB1

&lt;400&gt; 338

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&lt;211&gt; 1471

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2631845.con

&lt;220&gt;

&lt;221&gt; unsure

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&lt;223&gt; a, t, c, g, or other

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&lt;211&gt; 624

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 086390CB1

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&lt;211&gt; 2663

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

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&lt;210&gt; 342

&lt;211&gt; 2877

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: g5596369

&lt;400&gt; 342

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&lt;211&gt; 2782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 606122.con

&lt;400&gt; 343

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&lt;223&gt; Incyte ID No: 1612344CB1

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&lt;210&gt; 355

&lt;211&gt; 2077

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1881237CB1

&lt;400&gt; 355

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&lt;210&gt; 356

&lt;211&gt; 2439

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3669695CB1

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 6

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 356

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&lt;210&gt; 357

&lt;211&gt; 1630

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2776408CB1

&lt;400&gt; 357

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&lt;210&gt; 358

&lt;211&gt; 2520

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1330674.con

&lt;400&gt; 358

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&lt;210&gt; 359

&lt;211&gt; 2707

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2377834.con

&lt;400&gt; 359

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&lt;221&gt; unsure

&lt;222&gt; 9, 17, 52, 55, 58, 67, 79, 90

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 372

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&lt;211&gt; 1479



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<213> Homo sapiens

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<400> 376

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&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 1674985.con

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&lt;211&gt; 1928

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&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2109054.con

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&lt;213&gt; Homo sapiens

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&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3317039.com

&lt;400&gt; 390

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